

Bluegrass Area Occupational Outlook to 2010

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BLUEGRASS AREA OCCUPATIONAL OUTLOOK TO 2010

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PREFACE

The Labor Market Information in this publication is based on a large array of labor market statistics collected and developed by the staff of the Research and Statistics (R&S) Branch in the Kentucky Department for Employment Services. The Labor Market Information (LMI) Section within R&S developed the projections and this publication.

The Kentucky Occupational Employment Statistics (OES) survey of Kentucky employers provided the occupational employment data used in the study. This is a statewide survey of approximately 20,000 employers, over a three-year period, representing the various industries in Kentucky. The employment data used to project industries to the year 2010 were based on the Current Employment Statistic (CES) and the Employment and Earnings (ES-202) programs. The projected total growth in each Area Development District (ADD) was based on employment data from 1971 through 2000 developed from the Local Area Unemployment Statistics (LAUS) program. Data from all of the above programs were used to develop the occupational outlook to 2010 publications for each Area Development Districts listed below:

ADD 1-Purchase Area	ADD 8&9-Buffalo Trace and Gateway Areas
ADD 2-Pennyriple Area	ADD 10-FIVCO Area
ADD 3-Green River Area	ADD 11-Big Sandy Area
ADD 4-Barren River Area	ADD 12-Kentucky River Area
ADD 5-Lincoln Trail Area	ADD 13-Cumberland Valley Area
ADD 6-Louisville (KIPDA) Area	ADD 14-Lake Cumberland Area
ADD 7-Northern Kentucky Area	ADD 15-Bluegrass Area

The projections and this publication are funded by the U.S. Department of Labor (USDOL), Employment and Training Administration. The national industry and occupational projections developed by the U. S. Department of Labor's Bureau of Labor Statistics were used in the process to project Kentucky's industries and occupations. The Bureau of Labor Statistics and the U.S. Department of Commerce, Bureau of Economic Analysis provided additional statistics necessary in the projection process. The Utah Department of Economic Security developed the personal computer-based model used for the occupational projections. Special thanks go to the Kentucky employers who completed the questionnaires that provided the employment information necessary for this effort.

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INTRODUCTION

Which jobs will be in demand in the Bluegrass Area from now until the year 2010? Which occupations will provide the most job openings each year through 2010? Which occupations are likely to grow the fastest and which are likely to decline from 2000 to 2010? The *Bluegrass Area Occupational Outlook to 2010* offers some insight into these often asked questions. Students, job seekers, counselors and others should find this report helpful.

This report contains highlights and a user's guide to occupational statistics that provide answers to frequently asked questions regarding the statistics. Also included are tables of the top 45 Bluegrass Area occupations with the most annual job openings and the 44 fastest-growing Bluegrass Area occupations. The Bluegrass Area Occupational Employment Outlook and Job Openings tables beginning on page 9 provides occupational employment projections for a variety of occupations. This table also presents, for each of these occupations, the number and percentage of expected change in employment and the average number of annual job openings for the period of 2000 to 2010.

While this study provides projections of occupational trends and job openings in the Bluegrass Area, it should be stressed that the estimates are subject to the limitations that are a part of any effort to determine future conditions. It is impossible to predict what the Bluegrass Area will look like in 2010. The projections of long-term trends into the future, however, should provide valuable insight into the likely magnitude of occupational growth or decline in the area. The projections have been carefully prepared using accepted methods within a framework of national, state and area assumptions. They will be modified in future publications if long-term changes occur in the area's economic outlook or as more current information becomes available.

The estimates in this report reflect only the demand for labor from 2000 through 2010. The supply, or the number of educated or trained workers available to fill future job openings, is beyond the scope of this report.

With a projected tighter labor market resulting from Kentucky's labor force growing more slowly than employment, along with the structural and technological changes that are taking place in all industries, the development and utilization of our human resources have become a top priority for all those concerned with employment training. Education and training programs that can meet the needs of employers today and in the future will take on even greater importance. To meet this challenge, it is crucial that education and training planners, business, labor, government and job seekers have the necessary occupational information to assist them in making informed, intelligent decisions in the development of these education and training programs as well as individual career choice. This publication was designed to assist users in these tasks.

NOTE: These 2000-2010 projections use the new Standard Occupational Classification (SOC) system, while prior versions of projections used the Occupational Employment Statistics (OES) codes for classifying occupations. Because of this change, the titles and content of major occupational groups and many detailed occupations are substantially different. Several major groups have been renamed, combined, or reorganized. Some individual occupations also have been renamed or classified within different major groups. Some occupations are no longer listed, while newer occupations are listed for the first time with the SOC system. Because of these changes, the 2000-2010 projections are not comparable with earlier sets of projections. Information of the SOC system can be obtained at the U.S. Bureau of Labor Statistics SOC Home Page at <http://www.bls.gov/soc/home.htm>.

HIGHLIGHTS

- ✓ Bluegrass Area employment is expected to grow from 389,264 to 468,841 between 2000 and 2010, a gain of 20.4 percent.
- ✓ Between 2000 and 2010, the total annual job openings are expected to be about 17,349.
- ✓ Growth in employment will make available about 7,958 job openings annually.
- ✓ Approximately 9,391 job openings will result from separations from the labor force due to retirement or those who transfer to other jobs.
- ✓ Approximately 46 percent of job openings will result from growth, and the remaining 54 percent will result from separations from the labor force.
- ✓ The greatest number of job openings will be in the Office and Administrative Support Occupations (2,014), followed by the Production Occupations (1,958), and the Food Preparation and Serving Related Occupations (1,907).
- ✓ Particular Occupations with the largest percentage of change from 2000 to 2010 in the Bluegrass Area are Computer Software Engineers, Systems Software (93%), Home Health Aides (93%), Computer Support Specialists (87%) and Computer Software Engineers, Applications (86%).
- ✓ The largest growth rates between 2000 and 2010 are expected to be in the Computer and Mathematical Occupations (64%), the Healthcare Support Occupations (39%), and the Protective Service Occupations (31%).
- ✓ The top two Bluegrass Area occupations with the most annual job openings are Combined Food Preparation & Serving Workers (764) and Retail Salespersons (577).

A USER'S GUIDE TO OCCUPATIONAL OUTLOOK STATISTICS

When looking at an occupation, what key outlook data should you review?

- 1) Total average annual job openings and
- 2) Employment change expressed as a percentage

The total number of job openings estimates the likely annual demand for workers in each occupation. The percentage of employment change shows how much each occupation is likely to grow or decline.

What creates job openings?

- 1) Employment growth (new jobs)
- 2) Employment separations (job vacancies created by persons separating from an occupation)

What causes employment change?

Industrial growth or decline has the greatest influence on employment change. Industrial growth occurs when the demand for goods and services rises and, in turn, the demand for workers to produce those goods and services rises.

Technological change can raise the demand for some skills while eliminating the need for others. As this shift is going on, demand in the industry as a whole may be rising or falling.

New ways of doing business such as self-service, out-sourcing, or 24-hour operations can affect employment change.

Then what about employment separations?

Employment separations are still important when evaluating an occupation's potential outlook. Job openings are created by persons separating from an occupation because of retirements, promotions into different occupations, career changes, or deaths. In many instances, the number of employment separations exceeds new jobs.

Do workers tend to leave one occupation more than another?

Every occupation has a different rate of employment separations. Those occupations that require much education and training and/or have a high percentage of full-time workers tend to have low separation rates. But occupations that require little education and/or training tend to have higher separation rates.

What factors affect the number of job openings for an occupation?

- 1) The overall size of the occupation: How many workers are employed already?
- 2) The occupation's separation rate: How many job vacancies are created from workers separating from the occupation?
- 3) The occupation's rate of change: How fast is it growing or declining?

Which factor is more important?

Size of employment and separation rate are more important than rate of change in affecting the number of job openings.

What is the best way to compare one occupation with another?

- 1) Look at the total average annual job openings, not just openings resulting from growth. A large number of openings means it should be relatively easy to find a job in that occupation.
- 2) Look at the employment change expressed as a percentage. A high percentage increase in employment means that there may be excellent chances for advancement and for earnings increases because demand is likely to remain strong for some time.

Top 45
Bluegrass Area Occupations With The Most Annual Job Openings

		Job Openings		
		Average Annual 2000-2010		
Occupation Code	Occupational Title	Growth	Separations	Total
<u>Management Occupations</u>				
11-1021	General and Operations Managers	135	125	260
11-1011	Chief Executives	37	62	99
<u>Business and Financial Operations Occupations</u>				
13-2011	Accountants and Auditors	53	40	93
<u>Computer and Mathematical Occupations</u>				
15-1041	Computer Support Specialists	115	6	121
15-1051	Computer Systems Analysts	85	12	97
<u>Education, Training, and Library Occupations</u>				
25-9041	Teacher Assistants	73	68	141
25-2021	Elementary School Teachers, Ex. Special Ed.	30	62	92
<u>Healthcare Practitioners & Technical Occupations</u>				
29-1111	Registered Nurses	246	149	395
29-2061	Licensed Practical & Vocational Nurses	54	50	104
<u>Healthcare Support Occupations</u>				
31-1012	Nursing Aides, Orderlies, and Attendants	92	44	136
31-1011	Home Health Aides	78	11	89
31-9092	Medical Assistants	57	31	88
<u>Protective Service Occupations</u>				
33-9032	Security Guards	65	92	157
33-3051	Police and Sheriff's Patrol Officers	67	28	95
<u>Food Preparation & Serving Related Occupations</u>				
35-3021	Combined Food Preparation & Serving Workers	306	458	764
35-3031	Waiters and Waitresses	124	276	400
35-3022	Counter Attend., Cafeteria, Food Concession	28	138	166
35-2021	Food Preparation Workers	39	75	114
<u>Building, Grounds Cleaning & Maint. Occupations</u>				
37-3011	Landscaping and Groundskeeping Workers	146	71	217
37-2011	Janitors & Cleaners, Ex. Maids & Housekeeping	93	90	183
37-2012	Maids and Housekeeping Cleaners	35	104	139

Top 45
Bluegrass Area Occupations With The Most Annual Job Openings (cont'd)

Occupation Code	Occupational Title	Job Openings		
		Average Annual 2000-2010		
		Growth	Separations	Total
<u>Personal Care and Service Occupations</u>				
39-9011	Child Care Workers	167	326	493
<u>Sales and Related Occupations</u>				
41-2031	Retail Salespersons	200	377	577
41-2011	Cashiers	152	422	574
41-4012	Sales Reps, Wholesale & Manuf., Except Tech.	32	66	98
41-1011	Supervisors of Retail Sales Workers	41	45	86
<u>Office and Administrative Support Occupations</u>				
43-5081	Stock Clerks and Order Fillers	63	206	269
43-6011	Executive Secretaries & Admin. Assistants	98	111	209
43-4171	Receptionists and Information Clerks	109	64	173
43-9061	Office Clerks, General	84	86	170
43-4051	Customer Service Representatives	117	35	152
43-3031	Bookkeeping, Accounting, and Auditing Clerks	48	95	143
43-1011	Supervisors of Office and Administrative	51	72	123
43-6014	Secretaries, Except Legal, Medical & Executive	24	90	114
<u>Farming, Fishing, and Forestry Occupations</u>				
45-2093	Farmworkers, Farm and Ranch Animals	28	64	92
<u>Construction and Extraction Occupations</u>				
47-2111	Electricians	51	40	91
<u>Installation, Maintenance & Repair Occupations</u>				
49-9042	Maintenance and Repair Workers, General	52	55	107
<u>Production Occupations</u>				
51-2092	Team Assemblers	154	105	259
51-1011	Supervisors of Production and Operating Work	47	71	118
51-9198	Helpers--Production Workers	56	43	99
51-4011	Computer-Controlled Machine Tool Ops	36	51	87
<u>Transportation and Material Moving Occupations</u>				
53-7062	Laborers, Freight, Stock, Material Movers, Hand	276	223	499
53-3032	Truck Drivers, Heavy and Tractor-Trailer	117	69	186
53-7064	Packers and Packagers, Hand	76	62	138
53-3033	Truck Drivers, Light or Delivery Services	70	32	102

**Top 45
Fast-Growing Bluegrass Area Occupations**

Occupation Code	Occupational Title	Fast Growing Occupations				Total
		Employment		Change		Job Openings
		Actual 2000	Projected 2010	2000-2010 Number	Percent	Average Annual 2000-2010
<u>Management Occupations</u>						
11-3021	Computer and Information Systems Managers	601	905	304	50.6	40
11-2011	Advertising and Promotions Managers	276	398	122	44.2	16
11-9031	Education Admin., Preschool & Child Care	165	234	69	41.8	11
<u>Computer and Mathematical Occupations</u>						
15-1032	Computer Software Eng., Systems Software	425	822	397	93.4	43
15-1041	Computer Support Specialists	1,325	2,476	1,151	86.9	121
15-1031	Computer Software Engineers, Applications	806	1,496	690	85.6	74
15-1071	Network and Computer Systems Administrators	564	975	411	72.9	43
15-1081	Network Systems & Data Comm. Analysts	522	850	328	62.8	35
15-1051	Computer Systems Analysts	1,401	2,255	854	61.0	97
15-1061	Database Administrators	229	355	126	55.0	14
<u>Architecture and Engineering Occupations</u>						
17-1012	Landscape Architects	45	68	23	51.1	2
17-3031	Surveying and Mapping Technicians	227	319	92	40.5	16
<u>Community and Social Services Occupations</u>						
21-1023	Mental Health & Substance Abuse Social Work.	97	161	64	66.0	7
21-1093	Social and Human Service Assistants	451	705	254	56.3	32
21-1022	Medical and Public Health Social Workers	281	425	144	51.2	17
<u>Education, Training, and Library Occupations</u>						
25-1194	Vocational Education Teachers, Postsecondary	632	917	285	45.1	46
<u>Arts, Design, Entertainment, Sports & Media Occupations</u>						
27-1013	Fine Artists, Inc. Painters, Sculptors & Illustrator	41	59	18	43.9	3
<u>Healthcare Practitioners & Technical Occupations</u>						
29-2021	Dental Hygienists	273	415	142	52.0	18
29-2041	Emergency Medical Technicians & Paramedics	261	394	133	51.0	20
29-2081	Opticians, Dispensing	131	190	59	45.0	8
29-1123	Physical Therapists	478	685	207	43.3	33
29-1122	Occupational Therapists	301	421	120	39.9	20

**Top 45
Fast-Growing Bluegrass Area Occupations (cont'd)**

Occupation Code	Occupational Title	Fast Growing Occupations				Total
		Employment		Change		Job Openings
		Actual 2000	Projected 2010	2000-2010 Number	Percent	Average Annual 2000-2010
<u>Healthcare Support Occupations</u>						
31-1011	Home Health Aides	830	1,605	775	93.4	89
31-9091	Dental Assistants	753	1,162	409	54.3	55
31-2022	Physical Therapist Aides	226	344	118	52.2	19
31-2021	Physical Therapist Assistants	172	256	84	48.8	13
31-9092	Medical Assistants	1,184	1,754	570	48.1	88
<u>Protective Service Occupations</u>						
33-3051	Police and Sheriff's Patrol Officers	1,343	2,014	671	50.0	95
33-3011	Bailiffs	57	83	26	45.6	4
33-3012	Correctional Officers and Jailers	1,072	1,502	430	40.1	69
<u>Food Preparation & Serving Related Occupations</u>						
35-3021	Combined Food Preparation & Serving Workers	7,473	10,536	3,063	41.0	764
<u>Building, Grounds Cleaning & Maint. Occupations</u>						
37-3011	Landscaping and Groundskeeping Workers	2,846	4,308	1,462	51.4	217
<u>Personal Care and Service Occupations</u>						
39-9021	Personal and Home Care Aides	403	720	317	78.7	38
<u>Sales and Related Occupations</u>						
41-3031	Securities, Commodities, Financial Serv. Sales	480	691	211	44.0	25
<u>Office and Administrative Support Occupations</u>						
43-9031	Desktop Publishers	62	115	53	85.5	6
43-5031	Police, Fire, and Ambulance Dispatchers	287	405	118	41.1	17
43-4121	Library Assistants, Clerical	287	404	117	40.8	25
<u>Construction and Extraction Occupations</u>						
47-4011	Construction and Building Inspectors	196	284	88	44.9	13
<u>Production Occupations</u>						
51-4022	Forging Machine Setters, Operators & Tenders	116	171	55	47.4	10
51-8031	Water, Liquid Waste Treat. Plant & System Ops	398	579	181	45.5	31
51-7011	Cabinetmakers and Bench Carpenters	285	410	125	43.9	22
51-4121	Welders, Cutters, Solderers, and Brazers	1,036	1,477	441	42.6	73
51-7021	Furniture Finishers	63	88	25	39.7	6
51-4041	Machinists	1,256	1,753	497	39.6	76
<u>Transportation and Material Moving Occupations</u>						
53-7062	Laborers, Freight, Stock, Material Movers, Hand	6,681	9,439	2,758	41.3	499

Explanation of Data Elements on the Occupational Outlook Table

Occupational Employment Outlook and Job Openings

Occupational		Employment 2000 2010		Job Growth 2000 2010		Average Annual Job Openings			Average Wage	Education/ Training Required *
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2001	
<p>• Occupational Codes and Titles used in this report are based on the <i>Standard Occupational Coding (SOC)</i> Structure.</p> <p>NOTE:</p> <p><i>Alphabetical listing beginning on page 41 should help locate a specific occupation within the tables.</i></p>		<p>• Estimated 2000 employment is based on the <i>Occupational Employment Statistics (OES)</i> Survey of employers.</p> <p>• Projected 2010 levels of occupational employment are based on projections of industry employment and projections of occupational change factors between 2000 and 2010.</p> <p>NOTE:</p> <p><i>The Occupational employment estimates for 2000 to 2010 include all classes of workers such as public and private, wage and salaried workers; agricultural workers; private household workers; and self-employed.</i></p>		<p>• Number - The total number of jobs in an occupation gained or lost over the 2000 to 2010 period.</p> <p>• Percent - Percent change in employment in an occupation over the ten year period.</p> <p>NOTE:</p> <p><i>In Kentucky, 16.0 percent job growth between 2000 and 2010 is the average growth for all occupations.</i></p> <p><i>An occupation is expected to experience:</i></p> <ol style="list-style-type: none"> 1) <i>average growth if percent change is between 12 to 18%;</i> 2) <i>very fast growth if > 30%;</i> 3) <i>fast growth if >18% < 30%;</i> 4) <i>slow growth if >5% <12%;</i> 5) <i>very slow growth if >0% <5%;</i> 6) <i>negative or declining growth <0%.</i> 		<p>• Growth openings provide estimates of the average number of job openings expected to occur each year between 2000 and 2010 that result from employment growth.</p> <p>• Separation openings provide estimates of the average number of job openings expected to occur each year in an occupation, resulting from workers separating or leaving the occupation for such reasons as retirement, promotion, or simply transferring among occupations. Such separations would require replacement workers.</p> <p>• Total openings provide estimates of the total number of job openings expected each year from employment growth or job separations.</p> <p>NOTE:</p> <p><i>If employment growth is negative, the total number of job openings will equal the number of separations. They are equal because the number of separations already takes into account the negative employment growth.</i></p>			<p>• Average wage in this report always refers to the 2001 mean average hourly wage.</p> <p>NOTE</p> <p><i>Average hourly wages for each of the teacher occupations in this report were calculated from the average annual wage by assuming the average working months per year was 9.5 and average hours worked per week was 40.</i></p>	<p>• Education and Training Levels Usually Required were developed by the Bureau of Labor Statistics and grouped into eleven levels (1-11).</p> <p>*NOTE</p> <p><i>The various levels are described in detail on page 40 of this report.</i></p>

Bluegrass Area

Management Occupations

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number Percent		Average Annual 2000-2010 Growth Separations Total				
00-0000 Total, All Occupations		389,264	468,841	79,577	20.4	7,958	9,391	17,349	n/a	n/a
11-0000 Management Occupations		37,794	42,432	4,638	12.3	464	619	1,083	n/a	n/a
11-1000	Top Executives	9,460	11,214	1,754	18.5	175	189	364	n/a	n/a
11-1011	Chief Executives	1,963	2,337	374	19.1	37	62	99	52.00	4
11-1021	General and Operations Managers	7,436	8,790	1,354	18.2	135	125	260	30.12	4
11-2000	Advertising, Marketing, Promotions, PR & Sales	1,750	2,371	621	35.5	62	25	87	n/a	n/a
11-2011	Advertising and Promotions Managers	276	398	122	44.2	12	4	16	23.59	4
11-2020	Marketing and Sales Managers	1,320	1,765	445	33.7	45	19	64	n/a	n/a
11-2021	Marketing Managers	608	809	201	33.1	20	9	29	32.51	4
11-2022	Sales Managers	712	956	244	34.3	24	10	34	30.54	4
11-2031	Public Relations Managers	154	208	54	35.1	5	2	7	27.91	4
11-3000	Operations Specialties Managers	4,747	5,840	1,093	23.0	109	81	190	n/a	n/a
11-3011	Administrative Services Managers	572	714	142	24.8	14	9	23	21.30	4
11-3021	Computer and Information Systems Managers	601	905	304	50.6	30	10	40	34.74	4
11-3031	Financial Managers	1,483	1,764	281	18.9	28	23	51	28.83	4
11-3040	Human Resources Managers	623	717	94	15.1	9	11	20	27.66	4
11-3051	Industrial Production Managers	819	991	172	21.0	17	13	30	32.59	5
11-3061	Purchasing Managers	286	282	-4	-1.4	0	9	9	25.74	4
11-3071	Transportation, Storage, Distribution Managers	363	467	104	28.7	10	6	16	27.72	8
11-9000	Other Management Occupations	21,837	23,007	1,170	5.4	117	324	441	n/a	n/a
11-9010	Agricultural Managers	5,192	4,324	-868	-16.7	0	31	31	n/a	n/a
11-9011	Farm, Ranch, and Other Agricultural Managers	228	251	23	10.1	2	3	5	25.95	4
11-9012	Farmers and Ranchers	4,964	4,073	-891	-17.9	0	28	28	n/a	9
11-9021	Construction Managers	693	861	168	24.2	17	11	28	27.80	5
11-9030	Education Administrators	927	1,087	160	17.3	16	24	40	n/a	4
11-9031	Education Admin., Preschool & Child Care	165	234	69	41.8	7	4	11	13.97	4
11-9032	Education Admin., Elementary & Secondary	407	455	48	11.8	5	11	16	n/a	4
11-9033	Education Administrators, Postsecondary	349	391	42	12.0	4	9	13	36.74	4
11-9041	Engineering Managers	680	813	133	19.6	13	11	24	36.84	4
11-9051	Food Service Managers	1,129	1,415	286	25.3	29	13	42	13.63	8
11-9061	Funeral Directors	52	59	7	13.5	1	1	2	19.56	6
11-9081	Lodging Managers	60	55	-5	-8.3	0	1	1	15.39	8
11-9111	Medical and Health Services Managers	832	1,108	276	33.2	28	14	42	29.41	4
11-9121	Natural Sciences Managers	110	108	-2	-1.8	0	2	2	40.99	4
11-9131	Postmasters and Mail Superintendents	46	43	-3	-6.5	0	1	1	22.78	8
11-9141	Property, Real Est., Community Assn Manager	330	393	63	19.1	6	5	11	13.77	5
11-9151	Social and Community Service Managers	305	395	90	29.5	9	6	15	20.05	5
11-9199	Managers, All Other	11,481	12,346	865	7.5	87	203	290	31.84	8

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Business & Financial Operations Occs.

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual Growth	2000-2010 Separations	2000-2010 Total		
13-0000	Business and Financial Operations Occupations	11,235	12,931	1,696	15.1	170	218	388	n/a	n/a
13-1000	Business Operations Specialists	5,580	6,390	810	14.5	81	118	199	n/a	n/a
13-1020	Buyers and Purchasing Agents	969	1,077	108	11.1	11	22	33	n/a	n/a
13-1021	Purchasing Agents and Buyers, Farm Products	44	51	7	15.9	1	1	2	15.64	8
13-1022	Wholesale & Retail Buyers, Ex. Farm Products	234	227	-7	-3.0	0	7	7	15.65	5
13-1023	Purchasing Agent, Ex. Wholesale, Retail & Farm	691	799	108	15.6	11	14	25	20.87	5
13-1030	Claims Adjuster, Appraiser, Examiner & Invest.	432	456	24	5.6	2	5	7	n/a	n/a
13-1031	Claims Adjusters, Examiners, and Investigators	269	277	8	3.0	1	3	4	21.49	9
13-1032	Insurance Appraisers, Auto Damage	163	179	16	9.8	2	2	4	22.57	n/a
13-1041	Compliance Officer, Ex. Ag., Const., Health	421	506	85	20.2	9	11	20	22.17	9
13-1051	Cost Estimators	378	455	77	20.4	8	8	16	21.38	5
13-1061	Emergency Management Specialists	*	*	*	*	*	*	*	17.83	8
13-1070	Human Res., Training & Labor Relations Spec.	1,307	1,530	223	17.1	22	25	47	n/a	n/a
13-1071	Employment, Recruitment & Placement Spec.	314	376	62	19.7	6	6	12	18.51	5
13-1072	Compensation, Benefits & Job Analysis Spec.	289	334	45	15.6	5	6	11	20.01	5
13-1073	Training and Development Specialists	704	820	116	16.5	12	14	26	19.10	5
13-1111	Management Analysts	266	330	64	24.1	6	2	8	21.68	4
13-1121	Meeting and Convention Planners	105	117	12	11.4	1	2	3	16.74	5
13-1199	Business Operations Specialists, All Other	1,674	1,882	208	12.4	21	43	64	23.20	5
13-2000	Financial Specialists	5,655	6,541	886	15.7	89	100	189	n/a	n/a
13-2011	Accountants and Auditors	2,716	3,250	534	19.7	53	40	93	19.59	5
13-2021	Appraisers and Assessors of Real Estate	*	*	*	*	*	*	*	22.23	n/a
13-2031	Budget Analysts	544	623	79	14.5	8	11	19	22.84	5
13-2041	Credit Analysts	54	57	3	5.6	0	1	1	19.30	5
13-2050	Financial Analysts and Advisors	552	569	17	3.1	2	8	10	n/a	n/a
13-2052	Personal Financial Advisors	72	98	26	36.1	3	1	4	30.33	5
13-2061	Financial Examiners	65	74	9	13.8	1	1	2	26.01	5
13-2070	Loan Counselors and Officers	736	757	21	2.9	2	15	17	n/a	n/a
13-2072	Loan Officers	690	701	11	1.6	1	14	15	20.53	5
13-2080	Tax Examiner, Collector, Preparer & Revenue	585	716	131	22.4	13	15	28	n/a	n/a
13-2081	Tax Examiners, Collectors & Revenue Agents	556	675	119	21.4	12	15	27	17.41	5
13-2099	Financial Specialists, All Other	375	464	89	23.7	9	8	17	17.77	5

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Computer & Mathematical Occupations

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth Separations Total				
15-0000 Computer and Mathematical Occupations		6,852	11,212	4,360	63.6	436	60	496	n/a	n/a
15-1000	Computer Specialists	6,770	11,139	4,369	64.5	437	58	495	n/a	n/a
15-1021	Computer Programmers	1,092	1,300	208	19.0	21	23	44	27.76	5
15-1030	Computer Software Engineers	1,231	2,318	1,087	88.3	109	8	117	n/a	n/a
15-1031	Computer Software Engineers, Applications	806	1,496	690	85.6	69	5	74	35.17	5
15-1032	Computer Software Eng., Systems Software	425	822	397	93.4	40	3	43	27.89	5
15-1041	Computer Support Specialists	1,325	2,476	1,151	86.9	115	6	121	16.55	6
15-1051	Computer Systems Analysts	1,401	2,255	854	61.0	85	12	97	28.65	5
15-1061	Database Administrators	229	355	126	55.0	13	1	14	22.11	5
15-1071	Network and Computer Systems Administrators	564	975	411	72.9	41	2	43	22.43	5
15-1081	Network Systems & Data Comm. Analysts	522	850	328	62.8	33	2	35	25.17	5
15-1099	Computer Specialists, All Other	391	585	194	49.6	19	3	22	29.89	7
15-2000	Mathematical Scientists	82	73	-9	-11.0	0	2	2	n/a	n/a
15-2031	Operations Research Analysts	63	56	-7	-11.1	0	2	2	26.11	n/a
15-2041	Statisticians	*	*	*	*	*	*	*	22.69	n/a

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Architecture & Engineering Occupations

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth	Separations	Total		
17-0000	Architecture and Engineering Occupations	7,927	9,540	1,613	20.3	161	164	325	n/a	n/a
17-1000	Architects, Surveyors, and Cartographers	739	960	221	29.9	22	14	36	n/a	n/a
17-1010	Architects, Except Naval	344	462	118	34.3	12	2	14	n/a	n/a
17-1011	Architects, Except Landscape and Naval	299	394	95	31.8	10	2	12	22.27	5
17-1012	Landscape Architects	45	68	23	51.1	2	0	2	22.37	n/a
17-1020	Surveyors, Cartographers & Photogrammetrists	395	498	103	26.1	10	12	22	n/a	n/a
17-1021	Cartographers and Photogrammetrists	163	226	63	38.7	6	5	11	15.46	5
17-1022	Surveyors	232	272	40	17.2	4	7	11	16.79	5
17-2000	Engineers	4,187	4,862	675	16.1	68	78	146	n/a	n/a
17-2051	Civil Engineers	672	795	123	18.3	12	11	23	25.60	5
17-2070	Electrical and Electronics Engineers	373	456	83	22.3	8	7	15	n/a	n/a
17-2071	Electrical Engineers	284	344	60	21.1	6	5	11	28.84	5
17-2072	Electronics Engineers, Except Computer	89	112	23	25.8	2	2	4	29.40	5
17-2081	Environmental Engineers	151	207	56	37.1	6	3	9	27.72	5
17-2110	Industrial Engineers, Inc. Health and Safety	898	977	79	8.8	8	15	23	n/a	n/a
17-2111	Health and Safety Engineers, Ex. Mining Safety	75	87	12	16.0	1	1	2	23.66	5
17-2112	Industrial Engineers	823	890	67	8.1	7	14	21	28.91	5
17-2131	Materials Engineers	92	97	5	5.4	1	2	3	28.72	5
17-2141	Mechanical Engineers	623	772	149	23.9	15	18	33	26.00	5
17-2199	Engineers, All Other	330	333	3	0.9	0	7	7	29.58	5
17-3000	Drafters, Engineering & Mapping Technicians	3,001	3,718	717	23.9	72	72	144	n/a	n/a
17-3010	Drafters	794	1,010	216	27.2	22	24	46	n/a	n/a
17-3011	Architectural and Civil Drafters	429	590	161	37.5	16	13	29	15.43	7
17-3012	Electrical and Electronics Drafters	196	227	31	15.8	3	6	9	16.49	7
17-3013	Mechanical Drafters	169	193	24	14.2	2	5	7	16.74	7
17-3020	Engineering Technicians, Except Drafters	1,604	1,855	251	15.6	25	32	57	n/a	n/a
17-3022	Civil Engineering Technicians	735	850	115	15.6	12	15	27	18.89	6
17-3023	Electrical & Electronic Engineering Technicians	244	247	3	1.2	0	5	5	19.58	6
17-3024	Electro-Mechanical Technicians	*	*	*	*	*	*	*	17.25	6
17-3025	Environmental Engineering Technicians	112	141	29	25.9	3	2	5	16.29	6
17-3026	Industrial Engineering Technicians	143	171	28	19.6	3	3	6	20.30	6
17-3027	Mechanical Engineering Technicians	206	275	69	33.5	7	4	11	17.17	6
17-3031	Surveying and Mapping Technicians	227	319	92	40.5	9	7	16	15.47	10
17-3099	Drafters, Engineering, Mapping Tech., All Other	376	534	158	42.0	16	8	24	19.88	6

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Life, Physical & Social Science Occs.

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
19-0000	Life, Physical, and Social Science Occupations	3,330	3,881	551	16.5	55	98	153	n/a	n/a
19-1000	Life Scientists	739	853	114	15.4	11	22	33	n/a	n/a
19-1020	Biological Scientists	162	199	37	22.8	4	6	10	n/a	n/a
19-1023	Zoologists and Wildlife Biologists	87	112	25	28.7	3	3	6	20.57	2
19-1030	Conservation Scientists and Foresters	57	63	6	10.5	1	2	3	n/a	n/a
19-1031	Conservation Scientists	*	*	*	*	*	*	*	27.57	5
19-1032	Foresters	31	36	5	16.1	1	1	2	23.02	5
19-1040	Medical Scientists	259	291	32	12.4	3	6	9	n/a	n/a
19-1099	Life Scientists, All Other	97	107	10	10.3	1	4	5	24.43	5
19-2000	Physical Scientists	570	680	110	19.3	11	19	30	n/a	n/a
19-2030	Chemists and Materials Scientists	154	186	32	20.8	3	5	8	n/a	n/a
19-2031	Chemists	149	181	32	21.5	3	5	8	26.13	5
19-2040	Environmental Scientists and Geoscientists	346	416	70	20.2	7	11	18	n/a	n/a
19-2041	Environmental Scientists & Specialists	201	240	39	19.4	4	7	11	21.49	5
19-3000	Social Scientists and Related Workers	868	1,041	173	19.9	17	20	37	n/a	n/a
19-3011	Economists	51	60	9	17.6	1	1	2	27.09	n/a
19-3020	Market and Survey Researchers	284	325	41	14.4	4	6	10	n/a	n/a
19-3021	Market Research Analysts	232	261	29	12.5	3	5	8	25.63	5
19-3031	Clinical, Counseling, and School Psychologists	204	244	40	19.6	4	5	9	20.93	3
19-3090	Misc. Social Scientists and Related Workers	296	366	70	23.6	7	7	14	n/a	n/a
19-3091	Anthropologists and Archeologists	119	145	26	21.8	3	3	6	15.13	n/a
19-3099	Social Scientists & Related Workers, All Other	159	199	40	25.2	4	4	8	23.58	3
19-4000	Life, Physical, and Social Science Technicians	1,153	1,307	154	13.4	15	36	51	n/a	n/a
19-4011	Agricultural and Food Science Technicians	102	115	13	12.7	1	2	3	14.02	6
19-4031	Chemical Technicians	166	186	20	12.0	2	4	6	15.85	6
19-4090	Misc. Life, Physical & Social Science Technician	723	830	107	14.8	11	26	37	n/a	n/a
19-4091	Environmental Sci. & Protection Technicians	282	346	64	22.7	6	10	16	17.07	6

~ Education/Training Required Codes- Page 39 n/a - Not Available * Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Community & Social Services Occs.

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number Percent		Average Annual 2000-2010 Growth Separations Total				
21-0000 Community and Social Services Occupations		6,467	8,477	2,010	31.1	201	110	311	n/a	n/a
21-1000	Counselor, Social Worker & Other Community	3,564	4,791	1,227	34.4	123	53	176	n/a	n/a
21-1010	Counselors	1,139	1,395	256	22.5	26	23	49	n/a	n/a
21-1012	Educational, Vocational & School Counselors	464	573	109	23.5	11	10	21	19.95	3
21-1014	Mental Health Counselors	533	631	98	18.4	10	11	21	12.04	n/a
21-1015	Rehabilitation Counselors	125	162	37	29.6	4	3	7	14.99	3
21-1020	Social Workers	1,652	2,248	596	36.1	60	19	79	n/a	n/a
21-1021	Child, Family, and School Social Workers	1,274	1,662	388	30.5	39	14	53	15.58	5
21-1022	Medical and Public Health Social Workers	281	425	144	51.2	14	3	17	15.04	5
21-1023	Mental Health & Substance Abuse Social Work.	97	161	64	66.0	6	1	7	14.24	n/a
21-1090	Misc. Community and Social Service Specialists	773	1,148	375	48.5	38	12	50	n/a	n/a
21-1091	Health Educators	187	260	73	39.0	7	3	10	16.73	3
21-1093	Social and Human Service Assistants	451	705	254	56.3	25	7	32	10.73	10
21-2000	Religious Workers	1,164	1,492	328	28.2	33	26	59	n/a	n/a
21-2011	Clergy	607	779	172	28.3	17	17	34	15.71	3
21-9000	Misc. Counselors, Social, & Religious Workers	1,739	2,194	455	26.2	46	30	76	n/a	n/a
21-9099	Counselors, Social & Religious Work., All Other	1,739	2,194	455	26.2	46	30	76	15.74	5

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Legal Occupations

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth Separations Total				
23-0000	Legal Occupations	1,657	2,156	499	30.1	50	14	64	n/a	n/a
23-1000	Lawyers, Judges, and Related Workers	876	1,177	301	34.4	30	7	37	n/a	n/a
23-1011	Lawyers	813	1,107	294	36.2	29	6	35	43.24	1
23-1020	Judges, Magistrates & Other Judicial Workers	63	70	7	11.1	1	2	3	n/a	n/a
23-2000	Legal Support Workers	573	717	144	25.1	14	5	19	n/a	n/a
23-2011	Paralegals and Legal Assistants	223	296	73	32.7	7	1	8	17.14	6
23-2090	Miscellaneous Legal Support Workers	350	421	71	20.3	7	3	10	n/a	n/a
23-2092	Law Clerks	111	127	16	14.4	2	1	3	13.84	5
23-2093	Title Examiners, Abstractors, and Searchers	*	*	*	*	*	*	*	10.53	10
23-9000	Miscellaneous Legal & Related Workers	208	262	54	26.0	5	2	7	n/a	n/a
23-9099	Legal and Related Workers, All Other	208	262	54	26.0	5	2	7	15.03	5

~ Education/Training Required Codes- Page 39 n/a - Not Available * Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number Percent		Average Annual 2000-2010 Growth Separations Total				
25-0000 Education, Training, and Library Occupations		21,198	25,257	4,059	19.1	406	456	862	n/a	n/a
25-1000	Postsecondary Teachers	5,293	6,582	1,289	24.4	129	145	274	n/a	n/a
25-1011	Business Teachers, Postsecondary #	167	208	41	24.6	4	5	9	48.56	2
25-1020	Math and Computer Teachers, Postsecondary	220	273	53	24.1	5	6	11	n/a	n/a
25-1021	Computer Science Teachers, Postsecondary #	75	95	20	26.7	2	2	4	40.11	2
25-1022	Mathematical Sci. Teachers, Postsecondary #	145	178	33	22.8	3	4	7	37.81	2
25-1030	Engineering & Architecture Teachers, Postsec.	195	235	40	20.5	4	5	9	n/a	n/a
25-1040	Life Sciences Teachers, Postsecondary	340	411	71	20.9	7	9	16	n/a	n/a
25-1050	Physical Sciences Teachers, Postsecondary	192	232	40	20.8	4	5	9	n/a	n/a
25-1051	Atmospheric, Earth, Marine, Space Sci. Teach. #	47	57	10	21.3	1	1	2	41.74	2
25-1052	Chemistry Teachers, Postsecondary #	81	98	17	21.0	2	2	4	38.63	2
25-1054	Physics Teachers, Postsecondary #	55	67	12	21.8	1	2	3	40.89	2
25-1060	Social Sciences Teachers, Postsecondary	405	489	84	20.7	8	11	19	n/a	n/a
25-1064	Geography Teachers, Postsecondary #	39	47	8	20.5	1	1	2	38.17	n/a
25-1065	Political Science Teachers, Postsecondary #	70	85	15	21.4	2	2	4	37.98	2
25-1066	Psychology Teachers, Postsecondary #	132	160	28	21.2	3	4	7	37.50	2
25-1067	Sociology Teachers, Postsecondary #	38	46	8	21.1	1	1	2	32.68	2
25-1070	Health Teachers, Postsecondary	1,127	1,375	248	22.0	25	31	56	n/a	n/a
25-1071	Health Specialties Teachers, Postsecondary #	969	1,181	212	21.9	21	27	48	49.50	2
25-1072	Nursing Instructors & Teachers, Postsec. #	158	194	36	22.8	4	4	8	35.54	3
25-1080	Education & Library Science Teachers, Postsec.	294	357	63	21.4	6	8	14	n/a	n/a
25-1081	Education Teachers, Postsecondary #	281	341	60	21.4	6	8	14	32.85	2
25-1110	Law, Criminal Justice & Social Work Teachers	138	167	29	21.0	3	4	7	n/a	n/a
25-1120	Arts, Communications & Humanities Teachers	1,069	1,294	225	21.0	23	29	52	n/a	n/a
25-1123	English Language and Literature Teachers #	213	260	47	22.1	5	6	11	29.29	2
25-1125	History Teachers, Postsecondary #	92	111	19	20.7	2	3	5	36.87	2
25-1190	Miscellaneous Postsecondary Teachers	1,146	1,541	395	34.5	40	31	71	n/a	n/a
25-1194	Vocational Education Teachers, Postsecondary	632	917	285	45.1	29	17	46	21.53	8
25-1199	Postsecondary Teachers, All Other #	363	440	77	21.2	8	10	18	28.24	2
25-2000	Primary, Sec. & Special Ed. School Teachers	7,940	9,153	1,213	15.3	121	170	291	n/a	n/a
25-2010	Preschool and Kindergarten Teachers	1,179	1,416	237	20.1	24	15	39	n/a	n/a
25-2011	Preschool Teachers, Except Special Education	958	1,169	211	22.0	21	12	33	9.45	5
25-2012	Kindergarten Teachers, Ex. Special Education #	221	247	26	11.8	3	3	6	24.59	5
25-2020	Elementary and Middle School Teachers	4,090	4,498	408	10.0	41	93	134	n/a	n/a
25-2021	Elementary School Teachers, Ex. Special Ed. #	2,745	3,048	303	11.0	30	62	92	24.50	5
25-2022	Middle School Teacher, Ex. Special & Voc. Ed. #	1,334	1,437	103	7.7	10	30	40	25.24	5

~ Education/Training Required Codes- Page 39 n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Average hourly wages for teacher occupations were calculated by assuming the average working months per year was 9.5 and hours worked per week was 40.

Bluegrass Area

Education, Training & Library Occs. (cont'd)

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010		Average Annual 2000-2010				
				Number	Percent	Growth	Separations	Total		
25-2030	Secondary School Teachers	1,613	1,876	263	16.3	26	49	75	n/a	n/a
25-2031	Sec. School Teacher, Ex. Special & Voc. Ed. #	1,525	1,778	253	16.6	25	46	71	26.07	5
25-2032	Vocational Ed. Teachers, Secondary School #	88	98	10	11.4	1	3	4	28.38	5
25-2040	Special Education Teachers	1,058	1,363	305	28.8	31	13	44	n/a	n/a
25-2041	Special Ed. Teachers, Preschool to Elem #	519	705	186	35.8	19	7	26	23.54	5
25-2042	Special Education Teachers, Middle School #	253	309	56	22.1	6	3	9	23.65	5
25-2043	Special Education Teachers, Sec. School #	286	349	63	22.0	6	4	10	24.88	5
25-3000	Other Teachers and Instructors	2,298	2,730	432	18.8	43	23	66	n/a	n/a
25-3011	Adult Literacy, Remedial Ed. & GED Teachers	*	*	*	*	*	*	*	11.18	5
25-3021	Self-Enrichment Education Teachers	67	88	21	31.3	2	1	3	25.68	8
25-3999	Teachers, Primary, Secondary, Adult, All Other #	2,212	2,617	405	18.3	41	22	63	17.33	5
25-4000	Librarians, Curators, and Archivists	1,029	1,260	231	22.4	23	30	53	n/a	n/a
25-4010	Archivists, Curators, and Museum Technicians	78	95	17	21.8	2	2	4	12.78	3
25-4021	Librarians	570	660	90	15.8	9	12	21	18.56	3
25-4031	Library Technicians	381	505	124	32.5	12	17	29	10.51	11
25-9000	Other Education, Training, Library Occupations	4,638	5,532	894	19.3	89	88	177	n/a	n/a
25-9011	Audio-Visual Collections Specialists	*	*	*	*	*	*	*	20.84	n/a
25-9031	Instructional Coordinators	589	728	139	23.6	14	9	23	21.25	3
25-9041	Teacher Assistants #	3,260	3,989	729	22.4	73	68	141	14.23	11
25-9090	Misc. Education, Training, and Library Workers	278	309	31	11.2	3	4	7	n/a	n/a
25-9099	Education, Training & Library Workers, All Other	*	*	*	*	*	*	*	n/a	5
25-9199	Library, Museum, Training & Other Ed., All Other	269	298	29	10.8	3	4	7	12.95	5

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Average hourly wages for teacher occupations were calculated by assuming the average working months per year was 9.5 and hours worked per week was 40.

Bluegrass Area

Arts, Design, Entertainment, Sports & Media Occs.

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth	Average Annual 2000-2010 Separations	Average Annual 2000-2010 Total		
27-0000	Arts, Design, Entertain., Sports & Media Occs	3,852	4,599	747	19.4	75	78	153	n/a	n/a
27-1000	Art and Design Workers	1,109	1,447	338	30.5	34	13	47	n/a	n/a
27-1010	Artists and Related Workers	178	236	58	32.6	6	4	10	n/a	n/a
27-1011	Art Directors	81	100	19	23.5	2	2	4	23.28	4
27-1013	Fine Artists, Inc. Painters, Sculptors & Illustrator	41	59	18	43.9	2	1	3	13.05	9
27-1014	Multi-Media Artists and Animators	56	77	21	37.5	2	1	3	17.67	5
27-1020	Designers	900	1,176	276	30.7	28	9	37	n/a	n/a
27-1021	Commercial and Industrial Designers	96	122	26	27.1	3	1	4	21.03	5
27-1022	Fashion Designers	*	*	*	*	*	*	*	18.82	5
27-1023	Floral Designers	388	535	147	37.9	15	4	19	7.72	10
27-1024	Graphic Designers	217	286	69	31.8	7	2	9	14.92	5
27-1025	Interior Designers	59	68	9	15.3	1	1	2	17.20	5
27-1026	Merchandise Displayers and Window Trimmers	115	141	26	22.6	3	1	4	9.23	10
27-1027	Set and Exhibit Designers	*	*	*	*	*	*	*	10.43	5
27-1099	Art and Design Workers, All Other	*	*	*	*	*	*	*	19.73	5
27-2000	Entertain. & Performers, Sports & Related	695	785	90	12.9	9	13	22	n/a	n/a
27-2010	Actors, Producers, and Directors	212	256	44	20.8	4	4	8	n/a	n/a
27-2012	Producers and Directors	148	175	27	18.2	3	3	6	n/a	4
27-2020	Athletes, Coaches, Umpires & Related Workers	277	289	12	4.3	1	5	6	n/a	n/a
27-2022	Coaches and Scouts	240	246	6	2.5	1	5	6	n/a	9
27-2030	Dancers and Choreographers	65	64	-1	-1.5	0	1	1	n/a	n/a
27-2032	Choreographers	61	60	-1	-1.6	0	1	1	12.95	8
27-2040	Musicians, Singers, and Related Workers	130	164	34	26.2	3	3	6	n/a	n/a
27-3000	Media and Communication Workers	1,600	1,875	275	17.2	28	40	68	n/a	n/a
27-3020	News Analysts, Reporters and Correspondents	222	226	4	1.8	0	7	7	16.49	9
27-3031	Public Relations Specialists	367	481	114	31.1	11	6	17	18.99	5
27-3040	Writers and Editors	747	909	162	21.7	16	22	38	n/a	n/a
27-3041	Editors	539	652	113	21.0	11	18	29	17.93	5
27-3042	Technical Writers	95	113	18	18.9	2	3	5	22.90	5
27-3043	Writers and Authors	113	144	31	27.4	3	2	5	16.53	5
27-3090	Misc. Media and Communication Workers	86	100	14	16.3	1	2	3	n/a	n/a
27-3091	Interpreters and Translators	44	55	11	25.0	1	1	2	16.75	9
27-3099	Media and Communication Workers, All Other	42	45	3	7.1	0	1	1	14.22	9

~ Education/Training Required Codes- Page 39 n/a - Not Available * Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Arts, Design, Entertainment, Sports & Media Occs. (cont'd)

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010		Average Annual 2000-2010				
				Number	Percent	Growth	Separations	Total		
27-4000	Media and Communication Equipment Workers	448	492	44	9.8	4	12	16	n/a	n/a
27-4010	Broadcast & Sound Eng. Tech. & Radio Ops.	206	215	9	4.4	1	6	7	n/a	n/a
27-4011	Audio and Video Equipment Technicians	87	84	-3	-3.4	0	3	3	18.51	9
27-4014	Sound Engineering Technicians	*	*	*	*	*	*	*	17.06	n/a
27-4021	Photographers	150	175	25	16.7	3	3	6	11.85	9
27-4030	Television, Video & Motion Picture Camera Ops	68	76	8	11.8	1	1	2	n/a	n/a
27-4031	Camera Operators, TV, Video & Motion Picture	*	*	*	*	*	*	*	13.04	10
27-4099	Media & Comm. Equip. Workers, All Other	*	*	*	*	*	*	*	16.57	10

~ Education/Training Required Codes- Page 39 n/a - Not Available * Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Healthcare Practitioners & Technical Occs.

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
29-0000	Healthcare Practitioners & Technical Occs	18,062	23,467	5,405	29.9	541	391	932	n/a	n/a
29-1000	Health Diagnosing and Treating Practitioners	11,201	14,781	3,580	32.0	358	236	594	n/a	n/a
29-1020	Dentists	201	252	51	25.4	5	5	10	43.67	1
29-1031	Dietitians and Nutritionists	191	236	45	23.6	5	5	10	18.82	5
29-1041	Optometrists	*	*	*	*	*	*	*	37.86	n/a
29-1051	Pharmacists	641	818	177	27.6	18	19	37	34.22	1
29-1060	Physicians and Surgeons	919	1,079	160	17.4	16	14	30	n/a	1
29-1062	Family and General Practitioners	205	229	24	11.7	2	3	5	50.19	1
29-1063	Internists, General	59	70	11	18.6	1	1	2	61.63	1
29-1065	Pediatricians, General	*	*	*	*	*	*	*	50.00	1
29-1066	Psychiatrists	*	*	*	*	*	*	*	65.67	1
29-1067	Surgeons	170	204	34	20.0	3	3	6	64.56	1
29-1071	Physician Assistants	123	171	48	39.0	5	3	8	26.81	5
29-1111	Registered Nurses	7,395	9,858	2,463	33.3	246	149	395	20.31	6
29-1120	Therapists	1,372	1,887	515	37.5	52	34	86	n/a	n/a
29-1121	Audiologists	*	*	*	*	*	*	*	19.79	3
29-1122	Occupational Therapists	301	421	120	39.9	12	8	20	24.43	5
29-1123	Physical Therapists	478	685	207	43.3	21	12	33	26.39	3
29-1124	Radiation Therapists	49	54	5	10.2	1	1	2	19.34	6
29-1125	Recreational Therapists	40	44	4	10.0	0	1	1	13.02	5
29-1126	Respiratory Therapists	199	266	67	33.7	7	5	12	15.95	6
29-1127	Speech-Language Pathologists	290	395	105	36.2	11	7	18	21.00	3
29-1130	Veterinarians	165	224	59	35.8	6	3	9	n/a	n/a
29-1131	Veterinarians	165	224	59	35.8	6	3	9	40.75	1
29-1199	Health Diagnosing & Treating Pract., All Other	*	*	*	*	*	*	*	57.42	1
29-2000	Health Technologists and Technicians	6,088	7,695	1,607	26.4	161	146	307	n/a	n/a
29-2010	Clinical Laboratory Technologist & Technician	836	862	26	3.1	3	20	23	n/a	n/a
29-2011	Medical and Clinical Laboratory Technologists	493	503	10	2.0	1	12	13	18.70	5
29-2012	Medical and Clinical Laboratory Technicians	343	359	16	4.7	2	8	10	13.42	6
29-2021	Dental Hygienists	273	415	142	52.0	14	4	18	n/a	6
29-2030	Diagnostic Related Technologist & Technician	908	1,077	169	18.6	17	20	37	n/a	n/a
29-2031	Cardiovascular Technologists and Technicians	135	182	47	34.8	5	3	8	22.39	6
29-2032	Diagnostic Medical Sonographers	40	44	4	10.0	0	1	1	20.41	6
29-2033	Nuclear Medicine Technologists	49	55	6	12.2	1	1	2	18.09	6
29-2034	Radiologic Technologists and Technicians	684	796	112	16.4	11	15	26	15.73	6
29-2041	Emergency Medical Technicians & Paramedics	261	394	133	51.0	13	7	20	11.42	7

Bluegrass Area

Healthcare Practitioners & Technical Occs. (cont'd)

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number Percent		Average Annual 2000-2010 Growth Separations Total				
29-2050	Health Diag. & Treating Pract. Support Tech	1,283	1,654	371	28.9	37	33	70	n/a	n/a
29-2051	Dietetic Technicians	*	*	*	*	*	*	*	12.01	10
29-2052	Pharmacy Technicians	689	903	214	31.1	21	18	39	9.59	10
29-2054	Respiratory Therapy Technicians	130	173	43	33.1	4	3	7	14.30	7
29-2055	Surgical Technologists	208	245	37	17.8	4	5	9	14.03	7
29-2056	Veterinary Technologists and Technicians	207	278	71	34.3	7	5	12	10.69	6
29-2061	Licensed Practical & Vocational Nurses	1,948	2,492	544	27.9	54	50	104	14.48	7
29-2071	Medical Records & Health Information Tech.	447	610	163	36.5	16	10	26	11.63	6
29-2081	Opticians, Dispensing	131	190	59	45.0	6	2	8	12.47	9
29-9000	Other Healthcare Practitioners & Tech. Occs	773	991	218	28.2	22	10	32	n/a	n/a
29-9010	Occupational Health, Safety Specialists & Tech.	289	373	84	29.1	8	8	16	19.87	5
29-9090	Misc. Health Practitioners & Technical Workers	484	618	134	27.7	13	3	16	n/a	n/a
29-9091	Athletic Trainers	92	103	11	12.0	1	2	3	n/a	5
29-9099	Healthcare Pract. & Technical Worker, All Other	392	515	123	31.4	12	0	12	n/a	n/a

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Healthcare Support Occupations

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
31-0000	Healthcare Support Occupations	4,313	6,007	1,694	39.3	169	55	224	n/a	n/a
31-1000	Nursing, Psychiatric, and Home Health Aides	7,836	11,058	3,222	41.1	322	143	465	n/a	n/a
31-1010	Nursing, Psychiatric, and Home Health Aides	4,313	6,007	1,694	39.3	169	55	224	n/a	n/a
31-1011	Home Health Aides	830	1,605	775	93.4	78	11	89	9.85	11
31-1012	Nursing Aides, Orderlies, and Attendants	3,431	4,351	920	26.8	92	44	136	9.34	11
31-2000	Occupational, Physical Therapist Assist. & Aide	478	704	226	47.3	23	14	37	n/a	n/a
31-2010	Occupational Therapist Assistants and Aides	80	104	24	30.0	2	2	4	n/a	n/a
31-2011	Occupational Therapist Assistants	*	*	*	*	*	*	*	18.57	6
31-2012	Occupational Therapist Aides	*	*	*	*	*	*	*	9.60	11
31-2020	Physical Therapist Assistants and Aides	398	600	202	50.8	20	12	32	n/a	n/a
31-2021	Physical Therapist Assistants	172	256	84	48.8	8	5	13	14.40	6
31-2022	Physical Therapist Aides	226	344	118	52.2	12	7	19	8.52	11
31-9000	Other Healthcare Support Occupations	3,045	4,347	1,302	42.8	130	74	204	n/a	n/a
31-9011	Massage Therapists	36	47	11	30.6	1	1	2	14.35	7
31-9090	Miscellaneous Healthcare Support Occupations	3,009	4,300	1,291	42.9	129	73	202	n/a	n/a
31-9091	Dental Assistants	753	1,162	409	54.3	41	14	55	10.27	10
31-9092	Medical Assistants	1,184	1,754	570	48.1	57	31	88	10.90	10
31-9093	Medical Equipment Preparers	114	125	11	9.6	1	3	4	10.63	11
31-9094	Medical Transcriptionists	248	304	56	22.6	6	7	13	12.42	7
31-9095	Pharmacy Aides	89	99	10	11.2	1	2	3	9.56	11
31-9096	Veterinary Assist. & Lab. Animal Caretaker	118	164	46	39.0	5	3	8	9.14	11
31-9099	Healthcare Support Workers, All Other	503	692	189	37.6	19	13	32	10.23	11

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Protective Service Occupations

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth Separations Total				
33-0000 Protective Service Occupations		7,757	10,173	2,416	31.1	242	207	449	n/a	n/a
33-1000	Supervisors, Protective Service Workers	926	1,242	316	34.1	32	26	58	n/a	n/a
33-1010	Supervisors, Law Enforcement Workers	474	652	178	37.6	18	11	29	n/a	n/a
33-1011	Supervisors of Correctional Officers	139	194	55	39.6	6	2	8	19.24	8
33-1012	Supervisors of Police and Detectives	335	458	123	36.7	12	9	21	22.15	8
33-1021	Supervisors of Fire Fighting and Prevention	293	402	109	37.2	11	9	20	16.12	8
33-1099	Supervisors, Protective Service Workers	159	188	29	18.2	3	5	8	14.16	8
33-2000	Fire Fighting and Prevention Workers	605	838	233	38.5	23	16	39	n/a	n/a
33-2011	Fire Fighters	591	820	229	38.7	23	15	38	10.52	9
33-2021	Fire Inspectors and Investigators	*	*	*	*	*	*	*	10.49	8
33-3000	Law Enforcement Workers	2,603	3,767	1,164	44.7	116	58	174	n/a	n/a
33-3010	Bailiffs, Correctional Officers, and Jailers	1,129	1,585	456	40.4	46	27	73	n/a	n/a
33-3011	Bailiffs	57	83	26	45.6	3	1	4	10.18	10
33-3012	Correctional Officers and Jailers	1,072	1,502	430	40.1	43	26	69	13.02	10
33-3021	Detectives and Criminal Investigators	98	131	33	33.7	3	2	5	22.68	8
33-3051	Police and Sheriff's Patrol Officers	1,343	2,014	671	50.0	67	28	95	14.82	9
33-9000	Other Protective Service Workers	3,623	4,326	703	19.4	70	108	178	n/a	n/a
33-9011	Animal Control Workers	*	*	*	*	*	*	*	8.60	10
33-9021	Private Detectives and Investigators	*	*	*	*	*	*	*	12.62	8
33-9030	Security Guards	3,386	4,037	651	19.2	65	92	157	n/a	n/a
33-9032	Security Guards	3,385	4,036	651	19.2	65	92	157	9.59	11
33-9090	Miscellaneous Protective Service Workers	192	232	40	20.8	4	13	17	n/a	n/a
33-9091	Crossing Guards	36	47	11	30.6	1	1	2	6.24	11
33-9099	Protective Service Workers, All Other	156	185	29	18.6	3	12	15	9.70	11

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Food Preparation & Serving Related Occs.

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth Separations Total				
35-0000	Food Preparation & Serving Related Occupations	27,697	33,738	6,041	21.8	604	1,303	1,907	n/a	n/a
35-1000	Supervisors, Food Prep. & Serving Workers	1,765	2,030	265	15.0	27	46	73	n/a	n/a
35-1010	Supervisors, Food Preparation and Serving	1,765	2,030	265	15.0	27	46	73	n/a	n/a
35-1011	Chefs and Head Cooks	185	196	11	5.9	1	6	7	15.68	7
35-1012	Supervisors of Food Preparation and Serving	1,580	1,834	254	16.1	25	40	65	10.67	8
35-2000	Cooks and Food Preparation Workers	7,606	8,537	931	12.2	93	236	329	n/a	n/a
35-2010	Cooks	5,664	6,208	544	9.6	54	161	215	n/a	n/a
35-2011	Cooks, Fast Food	2,447	2,558	111	4.5	11	70	81	8.04	11
35-2012	Cooks, Institution and Cafeteria	1,542	1,553	11	0.7	1	44	45	8.75	9
35-2013	Cooks, Private Household	*	*	*	*	*	*	*	n/a	9
35-2014	Cooks, Restaurant	1,431	1,799	368	25.7	37	41	78	9.17	9
35-2015	Cooks, Short Order	231	287	56	24.2	6	7	13	8.06	11
35-2021	Food Preparation Workers	1,942	2,329	387	19.9	39	75	114	7.78	11
35-3000	Food and Beverage Serving Workers	15,494	20,245	4,751	30.7	475	925	1,400	n/a	n/a
35-3011	Bartenders	*	*	*	*	*	*	*	7.21	11
35-3020	Fast Food and Counter Workers	9,250	12,596	3,346	36.2	335	595	930	n/a	n/a
35-3021	Combined Food Preparation & Serving Workers	7,473	10,536	3,063	41.0	306	458	764	6.74	11
35-3022	Counter Attend., Cafeteria, Food Concession	1,777	2,060	283	15.9	28	138	166	6.50	11
35-3031	Waiters and Waitresses	4,910	6,145	1,235	25.2	124	276	400	7.41	11
35-3041	Food Servers, Nonrestaurant	218	229	11	5.0	1	10	11	7.36	11
35-9000	Other Food Prep. & Serving Related Workers	2,832	2,926	94	3.3	9	96	105	n/a	n/a
35-9011	Dining Room, Cafeteria Attend., Bartender Help	1,012	1,003	-9	-0.9	0	34	34	7.55	11
35-9021	Dishwashers	1,007	977	-30	-3.0	0	38	38	7.90	11
35-9031	Hosts and Hostesses, Restaurant, Lounge	773	902	129	16.7	13	23	36	7.26	11

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Building, Grounds Cleaning & Maintenance Occs.

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth	Average Annual 2000-2010 Separations	Average Annual 2000-2010 Total		
37-0000	Building, Grounds Cleaning & Maint. Occupations	14,202	17,474	3,272	23.0	327	298	625	n/a	n/a
37-1000	Supervisors, Building, Grounds Clean. & Maint.	899	1,120	221	24.6	22	18	40	n/a	n/a
37-1010	Supervisors, Building and Grounds Cleaning	899	1,120	221	24.6	22	18	40	n/a	n/a
37-1011	Supervisors of Housekeeping and Janitors	617	785	168	27.2	17	17	34	11.26	8
37-1012	Supervisors of Landscaping, Lawn Service	282	335	53	18.8	5	2	7	14.16	8
37-2000	Building Cleaning and Pest Control Workers	9,945	11,307	1,362	13.7	136	197	333	n/a	n/a
37-2010	Building Cleaning Workers	9,748	11,022	1,274	13.1	127	193	320	n/a	n/a
37-2011	Janitors & Cleaners, Ex. Maids & Housekeeping	4,968	5,896	928	18.7	93	90	183	8.73	11
37-2012	Maids and Housekeeping Cleaners	4,780	5,126	346	7.2	35	104	139	7.74	11
37-3000	Grounds Maintenance Workers	3,040	4,586	1,546	50.9	155	76	231	n/a	n/a
37-3010	Grounds Maintenance Workers	3,040	4,586	1,546	50.9	155	76	231	n/a	n/a
37-3011	Landscaping and Groundskeeping Workers	2,846	4,308	1,462	51.4	146	71	217	8.97	11
37-9000	Misc. Building, Grounds Cleaning & Maint. Work	318	461	143	45.0	14	6	20	n/a	n/a
37-9099	Build., Grounds Clean. & Maint. Work, All Other	318	461	143	45.0	14	6	20	8.70	11

~ Education/Training Required Codes- Page 39 n/a - Not Available * Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Personal Care & Service Occupations

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
39-0000 Personal Care and Service Occupations		13,836	16,653	2,817	20.4	282	453	735	n/a	n/a
39-1000	Supervisors, Personal Care & Service Workers	132	156	24	18.2	2	4	6	n/a	n/a
39-1021	Supervisors of Personal Service Workers	129	152	23	17.8	2	4	6	14.44	8
39-2000	Animal Care and Service Workers	499	633	134	26.9	13	10	23	n/a	n/a
39-2011	Animal Trainers	140	171	31	22.1	3	3	6	13.68	n/a
39-2021	Nonfarm Animal Caretakers	359	462	103	28.7	10	8	18	9.06	11
39-3000	Entertainment Attendants and Related Workers	1,125	1,354	229	20.4	23	57	80	n/a	n/a
39-3090	Misc. Entertainment Attend. & Related Workers	516	637	121	23.4	12	17	29	n/a	n/a
39-3091	Amusement and Recreation Attendants	259	329	70	27.0	7	9	16	7.09	11
39-3093	Locker Room, Coat & Dressing Room Attend.	76	96	20	26.3	2	3	5	7.70	8
39-4000	Funeral Service Workers	132	146	14	10.6	1	3	4	n/a	n/a
39-4011	Embalmers	89	92	3	3.4	0	2	2	19.93	7
39-4021	Funeral Attendants	43	54	11	25.6	1	1	2	8.65	11
39-5000	Personal Appearance Workers	672	733	61	9.1	6	17	23	n/a	n/a
39-5010	Barbers and Cosmetologists	608	656	48	7.9	5	15	20	n/a	n/a
39-5012	Hairdressers, Hairstylists, and Cosmetologists	581	631	50	8.6	5	14	19	11.55	7
39-5090	Miscellaneous Personal Appearance Workers	64	77	13	20.3	1	2	3	n/a	n/a
39-5092	Manicurists and Pedicurists	*	*	*	*	*	*	*	12.28	7
39-6000	Transportation, Tourism & Lodging Attendants	270	280	10	3.7	1	9	10	n/a	n/a
39-6010	Baggage Porters, Bellhops, and Concierges	152	141	-11	-7.2	0	5	5	n/a	n/a
39-6011	Baggage Porters and Bellhops	114	105	-9	-7.9	0	4	4	6.19	11
39-6012	Concierges	*	*	*	*	*	*	*	7.62	n/a
39-6020	Tour and Travel Guides	97	108	11	11.3	1	3	4	n/a	n/a
39-6021	Tour Guides and Escorts	84	96	12	14.3	1	3	4	6.98	n/a
39-9000	Other Personal Care and Service Workers	11,006	13,351	2,345	21.3	235	354	589	n/a	n/a
39-9011	Child Care Workers	9,601	11,275	1,674	17.4	167	326	493	7.40	11
39-9021	Personal and Home Care Aides	403	720	317	78.7	32	6	38	6.98	11
39-9030	Recreation and Fitness Workers	457	615	158	34.6	16	10	26	n/a	n/a
39-9031	Fitness Trainers and Aerobics Instructors	144	193	49	34.0	5	3	8	14.06	7
39-9032	Recreation Workers	313	422	109	34.8	11	7	18	10.55	5
39-9041	Residential Advisors	353	488	135	38.2	14	8	22	9.24	10
39-9099	Personal Care and Service Workers, All Other	192	253	61	31.8	6	4	10	12.65	10

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Sales & Related Occupations

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	Percent	Average Annual 2000-2010 Growth	Separations	Total		
41-0000	Sales and Related Occupations	31,735	37,185	5,450	17.2	545	1,096	1,641	n/a	n/a
41-1000	Supervisors, Sales Workers	3,663	4,102	439	12.0	44	53	97	n/a	n/a
41-1010	Supervisors, Sales Workers	3,663	4,102	439	12.0	44	53	97	n/a	n/a
41-1011	Supervisors of Retail Sales Workers	3,135	3,542	407	13.0	41	45	86	13.87	8
41-1012	Supervisors of Non-Retail Sales Workers	528	560	32	6.1	3	8	11	25.39	8
41-2000	Retail Sales Workers	21,159	24,909	3,750	17.7	375	877	1,252	n/a	n/a
41-2010	Cashiers	9,362	10,909	1,547	16.5	155	425	580	n/a	n/a
41-2011	Cashiers	9,291	10,812	1,521	16.4	152	422	574	7.85	11
41-2020	Counter, Rental Clerks & Parts Salespersons	1,881	2,087	206	11.0	21	75	96	n/a	n/a
41-2021	Counter and Rental Clerks	1,228	1,450	222	18.1	22	56	78	8.22	11
41-2022	Parts Salespersons	653	637	-16	-2.5	0	20	20	10.08	10
41-2031	Retail Salespersons	9,916	11,913	1,997	20.1	200	377	577	9.33	11
41-3000	Sales Representatives, Services	1,805	2,102	297	16.5	30	35	65	n/a	n/a
41-3011	Advertising Sales Agents	400	543	143	35.8	14	8	22	13.60	10
41-3021	Insurance Sales Agents	524	369	-155	-29.6	0	13	13	21.02	5
41-3031	Securities, Commodities, Financial Serv. Sales	480	691	211	44.0	21	4	25	25.19	5
41-3041	Travel Agents	139	178	39	28.1	4	3	7	10.81	7
41-3099	Sales Representatives, Services, All Other	262	321	59	22.5	6	6	12	21.16	10
41-4000	Sales Reps, Wholesale and Manufacturing	3,137	3,537	400	12.8	40	85	125	n/a	n/a
41-4010	Sales Reps, Wholesale and Manufacturing	3,137	3,537	400	12.8	40	85	125	n/a	n/a
41-4011	Sales Reps, Wholesale & Manufacturing, Tech.	712	797	85	11.9	9	19	28	29.57	10
41-4012	Sales Reps, Wholesale & Manuf., Except Tech.	2,425	2,740	315	13.0	32	66	98	20.79	10
41-9000	Other Sales and Related Workers	1,971	2,535	564	28.6	56	46	102	n/a	n/a
41-9010	Models, Demonstrators & Product Promoters	307	425	118	38.4	12	10	22	n/a	n/a
41-9020	Real Estate Brokers and Sales Agents	321	392	71	22.1	7	6	13	n/a	n/a
41-9021	Real Estate Brokers	*	*	*	*	*	*	*	15.57	8
41-9022	Real Estate Sales Agents	297	365	68	22.9	7	5	12	12.83	7
41-9031	Sales Engineers	115	128	13	11.3	1	3	4	26.71	5
41-9041	Telemarketers	203	274	71	35.0	7	4	11	12.63	11
41-9090	Miscellaneous Sales and Related Workers	1,025	1,316	291	28.4	29	24	53	n/a	n/a
41-9099	Sales and Related Workers, All Other	761	998	237	31.1	24	17	41	15.74	10

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Office & Administrative Support Occs.

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	Percent	Average Annual 2000-2010 Growth Separations Total				
43-0000 Office and Administrative Support Occupations		59,490	66,845	7,355	12.4	736	1,278	2,014	n/a	n/a
43-1000	Supervisors, Office & Admin. Support Workers	3,718	4,228	510	13.7	51	72	123	n/a	n/a
43-1011	Supervisors of Office and Administrative	3,718	4,228	510	13.7	51	72	123	17.27	8
43-2000	Communications Equipment Operators	929	702	-227	-24.4	0	28	28	n/a	n/a
43-2011	Switchboard Operators, Inc. Answering Service	610	526	-84	-13.8	0	18	18	9.36	11
43-3000	Financial Clerks	9,319	10,036	717	7.7	72	230	302	n/a	n/a
43-3011	Bill and Account Collectors	401	478	77	19.2	8	10	18	12.64	11
43-3021	Billing, Posting Clerks & Machine Operators	1,895	2,191	296	15.6	30	46	76	11.08	11
43-3031	Bookkeeping, Accounting, and Auditing Clerks	5,020	5,502	482	9.6	48	95	143	12.00	10
43-3051	Payroll and Timekeeping Clerks	671	691	20	3.0	2	20	22	13.94	11
43-3061	Procurement Clerks	200	191	-9	-4.5	0	5	5	13.98	11
43-3071	Tellers	1,132	983	-149	-13.2	0	54	54	9.27	11
43-4000	Information and Record Clerks	13,111	15,954	2,843	21.7	284	240	524	n/a	n/a
43-4011	Brokerage Clerks	122	153	31	25.4	3	2	5	10.93	10
43-4021	Correspondence Clerks	61	57	-4	-6.6	0	2	2	13.07	11
43-4041	Credit Authorizers, Checkers, and Clerks	69	77	8	11.6	1	1	2	14.32	11
43-4051	Customer Service Representatives	4,117	5,289	1,172	28.5	117	35	152	11.21	10
43-4061	Eligibility Interviewers, Government Programs	306	294	-12	-3.9	0	9	9	18.20	10
43-4071	File Clerks	928	1,163	235	25.3	24	30	54	9.15	11
43-4081	Hotel, Motel, and Resort Desk Clerks	480	530	50	10.4	5	21	26	7.69	11
43-4111	Interviewers, Except Eligibility and Loan	592	773	181	30.6	18	13	31	10.08	11
43-4121	Library Assistants, Clerical	287	404	117	40.8	12	13	25	7.96	11
43-4141	New Accounts Clerks	32	29	-3	-9.4	0	1	1	11.18	8
43-4151	Order Clerks	1,031	957	-74	-7.2	0	22	22	10.39	11
43-4161	Human Res. Assist., Ex. Payroll & Timekeeping	392	478	86	21.9	9	9	18	13.26	11
43-4171	Receptionists and Information Clerks	2,926	4,014	1,088	37.2	109	64	173	9.47	11
43-4181	Reserv. & Transp. Ticket Agents & Travel Cler	85	99	14	16.5	1	2	3	11.87	11
43-4999	Financial, Information, Record Clerks, All Other	731	827	96	13.1	10	10	20	14.07	11
43-5000	Material Record, Schedule, Dispatch, Distribute	11,598	12,848	1,250	10.8	125	335	460	n/a	n/a
43-5011	Cargo and Freight Agents	81	109	28	34.6	3	2	5	12.34	10
43-5021	Couriers and Messengers	414	421	7	1.7	1	11	12	8.69	11
43-5030	Dispatchers	656	811	155	23.6	16	11	27	n/a	n/a
43-5031	Police, Fire, and Ambulance Dispatchers	287	405	118	41.1	12	5	17	11.16	10
43-5032	Dispatchers, Except Police, Fire & Ambulance	369	406	37	10.0	4	6	10	12.77	10
43-5041	Meter Readers, Utilities	127	102	-25	-19.7	0	3	3	12.63	11

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Office & Administrative Support Occs. (cont'd)

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
43-5050	Postal Service Workers	1,588	1,479	-109	-6.9	0	44	44	n/a	n/a
43-5051	Postal Service Clerks	176	164	-12	-6.8	0	4	4	18.26	11
43-5052	Postal Service Mail Carriers	1,050	978	-72	-6.9	0	32	32	18.19	11
43-5053	Postal Service Mail Sorters, Processors	362	337	-25	-6.9	0	8	8	14.45	11
43-5061	Production, Planning, and Expediting Clerks	823	970	147	17.9	15	14	29	16.57	11
43-5071	Shipping, Receiving, and Traffic Clerks	1,885	2,253	368	19.5	37	38	75	11.31	11
43-5081	Stock Clerks and Order Fillers	5,790	6,418	628	10.8	63	206	269	10.51	11
43-5111	Weigher, Measurer, Checker, Sampler, Records	164	210	46	28.0	5	4	9	12.46	11
43-5199	Material Record, Schedule, Dispatch, Distribute	*	*	*	*	*	*	*	13.22	11
43-6000	Secretaries and Administrative Assistants	12,608	14,016	1,408	11.2	141	214	355	n/a	n/a
43-6010	Secretaries and Administrative Assistants	12,608	14,016	1,408	11.2	141	214	355	n/a	n/a
43-6011	Executive Secretaries & Admin. Assistants	6,526	7,503	977	15.0	98	111	209	14.09	10
43-6012	Legal Secretaries	343	432	89	25.9	9	6	15	15.75	7
43-6013	Medical Secretaries	447	546	99	22.1	10	8	18	10.49	7
43-6014	Secretaries, Except Legal, Medical & Executive	5,292	5,535	243	4.6	24	90	114	11.10	10
43-9000	Other Office & Administrative Support Workers	8,207	9,061	854	10.4	85	160	245	n/a	n/a
43-9011	Computer Operators	310	281	-29	-9.4	0	6	6	13.33	10
43-9020	Data Entry and Information Processing Workers	1,158	1,268	110	9.5	11	20	31	n/a	n/a
43-9021	Data Entry Keyers	848	936	88	10.4	9	13	22	9.60	10
43-9022	Word Processors and Typists	310	332	22	7.1	2	6	8	11.25	10
43-9031	Desktop Publishers	62	115	53	85.5	5	1	6	12.24	7
43-9041	Insurance Claims and Policy Processing Clerks	498	364	-134	-26.9	0	9	9	14.91	10
43-9051	Mail Clerks & Mail Machine Ops, Ex. Postal Serv	331	338	7	2.1	1	10	11	10.23	11
43-9061	Office Clerks, General	4,468	5,306	838	18.8	84	86	170	9.90	11
43-9071	Office Machine Operators, Except Computer	245	195	-50	-20.4	0	9	9	10.00	11
43-9081	Proofreaders and Copy Markers	133	146	13	9.8	1	5	6	8.51	11
43-9111	Statistical Assistants	35	27	-8	-22.9	0	0	0	11.33	10
43-9999	Secretaries, Admin. Assist., Other Office Support	967	1,021	54	5.6	5	16	21	11.08	11

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Farming, Fishing & Forestry Occs.

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
45-0000	Farming, Fishing, and Forestry Occupations	3,853	4,604	751	19.5	75	114	189	n/a	n/a
45-1000	Supervisors, Farming, Fishing & Forestry Work	232	282	50	21.6	5	2	7	n/a	n/a
45-1010	Supervisors of Farming, Fishing, and Forestry	232	282	50	21.6	5	2	7	n/a	n/a
45-1011	Supervisors of Farming, Fishing, and Forestry	205	249	44	21.5	4	2	6	15.64	10
45-2000	Agricultural Workers	2,712	3,125	413	15.2	41	88	129	n/a	n/a
45-2021	Animal Breeders	*	*	*	*	*	*	*	12.54	n/a
45-2040	Graders and Sorters, Agricultural Products	91	90	-1	-1.1	0	2	2	n/a	n/a
45-2041	Graders and Sorters, Agricultural Products	91	90	-1	-1.1	0	2	2	9.43	8
45-2090	Miscellaneous Agricultural Workers	2,419	2,795	376	15.5	38	80	118	n/a	n/a
45-2091	Agricultural Equipment Operators	155	177	22	14.2	2	5	7	11.56	10
45-2092	Farmwork., Laborer, Crop, Nursery, Greenhouse	*	*	*	*	*	*	*	8.61	n/a
45-2093	Farmworkers, Farm and Ranch Animals	1,920	2,200	280	14.6	28	64	92	8.76	10
45-2099	Agricultural Workers, All Other	50	42	-8	-16.0	0	2	2	n/a	n/a
45-3000	Fishing and Hunting Workers	509	651	142	27.9	14	16	30	n/a	n/a
45-3010	Fishers and Related Fishing Workers	509	651	142	27.9	14	16	30	n/a	n/a
45-4000	Forest, Conservation, and Logging Workers	344	486	142	41.3	14	7	21	n/a	n/a
45-4020	Logging Workers	316	450	134	42.4	13	6	19	n/a	n/a
45-9000	Other Farming, Fishing, and Forestry Workers	56	60	4	7.1	0	2	2	n/a	n/a

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Construction & Extraction Occupations

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth Separations Total				
47-0000 Construction and Extraction Occupations		16,500	19,966	3,466	21.0	347	338	685	n/a	n/a
47-1000	Supervisors, Const. & Extraction Workers	1,561	1,914	353	22.6	35	36	71	n/a	n/a
47-1011	Supervisors of Construction Trades	1,561	1,914	353	22.6	35	36	71	20.42	8
47-2000	Construction Trades Workers	11,976	14,535	2,559	21.4	256	198	454	n/a	n/a
47-2011	Boilermakers	164	178	14	8.5	1	4	5	18.22	9
47-2020	Brickmasons, Blockmasons & Stonemasons	189	217	28	14.8	3	4	7	n/a	n/a
47-2021	Brickmasons and Blockmasons	156	177	21	13.5	2	3	5	17.87	9
47-2022	Stonemasons	33	40	7	21.2	1	1	2	18.08	n/a
47-2031	Carpenters	1,643	1,996	353	21.5	35	28	63	15.20	9
47-2040	Carpet, Floor, and Tile Installers and Finishers	88	101	13	14.8	1	2	3	n/a	n/a
47-2041	Carpet Installers	51	59	8	15.7	1	1	2	13.64	10
47-2051	Cement Masons and Concrete Finishers	324	353	29	9.0	3	3	6	13.64	9
47-2061	Construction Laborers	2,141	2,620	479	22.4	48	20	68	11.07	10
47-2070	Construction Equipment Operators	1,540	1,855	315	20.5	32	33	65	n/a	n/a
47-2071	Paving, Surfacing & Tamping Equip. Operators	53	68	15	28.3	2	1	3	12.68	10
47-2073	Operating Engineers & Other Const. Equip. Ops	1,487	1,787	300	20.2	30	32	62	15.81	10
47-2080	Drywall, Ceiling Tile Installers & Tapers	282	347	65	23.0	7	3	10	n/a	n/a
47-2081	Drywall and Ceiling Tile Installers	*	*	*	*	*	*	*	13.00	10
47-2111	Electricians	2,143	2,657	514	24.0	51	40	91	17.90	9
47-2121	Glaziers	*	*	*	*	*	*	*	10.91	9
47-2130	Insulation Workers	67	69	2	3.0	0	2	2	10.73	10
47-2140	Painters and Paperhangers	917	1,159	242	26.4	24	16	40	n/a	n/a
47-2141	Painters, Construction and Maintenance	911	1,149	238	26.1	24	16	40	10.98	10
47-2150	Pipelayers, Plumbers, Pipefitters & Steamfitters	1,153	1,301	148	12.8	15	19	34	n/a	n/a
47-2151	Pipelayers	176	214	38	21.6	4	3	7	14.94	10
47-2152	Plumbers, Pipefitters, and Steamfitters	977	1,087	110	11.3	11	16	27	17.68	9
47-2161	Plasterers and Stucco Masons	*	*	*	*	*	*	*	19.06	9
47-2171	Reinforcing Iron and Rebar Workers	*	*	*	*	*	*	*	25.18	9
47-2181	Roofers	255	313	58	22.7	6	6	12	12.96	10
47-2211	Sheet Metal Workers	749	967	218	29.1	22	16	38	13.56	10
47-2221	Structural Iron and Steel Workers	106	130	24	22.6	2	1	3	16.24	9
47-3000	Helpers, Construction Trades	1,425	1,640	215	15.1	22	71	93	n/a	n/a
47-3010	Helpers, Construction Trades	1,425	1,640	215	15.1	22	71	93	n/a	n/a
47-3011	Helpers--Brick, Block & Stonemasons & Tile	310	347	37	11.9	4	15	19	11.31	11
47-3012	Helpers--Carpenters	191	220	29	15.2	3	9	12	9.33	11
47-3013	Helpers--Electricians	446	522	76	17.0	8	22	30	9.83	11
47-3015	Helpers--Pipelayer, Plumber, Pipe & Steamfitter	329	366	37	11.2	4	16	20	10.01	11
47-3016	Helpers--Roofers	105	129	24	22.9	2	5	7	7.93	11
47-3019	Helpers, Construction Trades, All Other	*	*	*	*	*	*	*	10.83	n/a

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Construction & Extraction Occupations (cont'd)

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000	2010	2000-2010		Average Annual 2000-2010				
		Estimated	Projected	Number	Percent	Growth	Separations	Total		
47-4000	Other Construction and Related Workers	1,264	1,585	321	25.4	32	25	57	n/a	n/a
47-4011	Construction and Building Inspectors	196	284	88	44.9	9	4	13	17.01	8
47-4031	Fence Erectors	130	142	12	9.2	1	2	3	10.82	10
47-4041	Hazardous Materials Removal Workers	*	*	*	*	*	*	*	15.44	10
47-4051	Highway Maintenance Workers	467	578	111	23.8	11	7	18	10.30	10
47-4999	Const. Trades & Related Workers, All Other	164	215	51	31.1	5	3	8	13.03	8
47-5000	Extraction Workers	274	292	18	6.6	2	9	11	n/a	n/a
47-5010	Derrick, Rotary Drill & Service Unit Operators	*	*	*	*	*	*	*	n/a	n/a
47-5021	Earth Drillers, Except Oil and Gas	73	92	19	26.0	2	2	4	14.34	10
47-5031	Explosives Worker, Ordnance Handling Expert	177	181	4	2.3	0	6	6	15.00	n/a
47-5081	Helpers--Extraction Workers	*	*	*	*	*	*	*	10.43	n/a

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Installation, Maintenance & Repair Occs.

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
49-0000	Installation, Maintenance & Repair Occupations	15,452	18,219	2,767	17.9	277	322	599	n/a	n/a
49-1000	Supervisors of Install., Maint. & Repair Workers	1,531	1,864	333	21.8	33	40	73	n/a	n/a
49-1011	Supervisors of Mechanics, Installers & Repair	1,531	1,864	333	21.8	33	40	73	21.00	8
49-2000	Electrical & Electronic Equipment Mechanics	1,754	2,110	356	20.3	36	28	64	n/a	n/a
49-2020	Radio & Telecommunications Equip. Installers	148	129	-19	-12.8	0	3	3	n/a	n/a
49-2022	Telecommunications Equip. Install & Repair	137	121	-16	-11.7	0	3	3	18.38	7
49-2090	Misc. Electrical & Electronic Equipment	781	868	87	11.1	9	16	25	n/a	n/a
49-2092	Electric Motor, Power Tool & Related Repairers	53	59	6	11.3	1	1	2	16.41	7
49-2094	Electrical & Electronics Repair, Commerc. & Ind	260	285	25	9.6	3	5	8	18.51	7
49-2095	Electrical & Electronics Repair, Powerhouse	43	49	6	14.0	1	1	2	19.63	7
49-2097	Electronic Home Entertain. Equip. Installers	53	41	-12	-22.6	0	1	1	13.07	7
49-2099	Electrical & Electronic Equip. Mechanics	107	121	14	13.1	1	2	3	12.96	7
49-3000	Vehicle & Mobile Equipment Mechanics	3,839	4,559	720	18.8	72	97	169	n/a	n/a
49-3010	Aircraft Mechanics and Service Technicians	185	218	33	17.8	3	4	7	n/a	n/a
49-3012	Aircraft Mechanics & Service Tech., FAA Certified	*	*	*	*	*	*	*	n/a	n/a
49-3020	Automotive Technicians and Repairers	2,143	2,603	460	21.5	46	51	97	n/a	n/a
49-3021	Automotive Body and Related Repairers	299	348	49	16.4	5	7	12	16.73	9
49-3023	Automotive Service Technicians and Mechanics	1,781	2,185	404	22.7	40	42	82	14.02	7
49-3031	Bus, Truck Mechanics & Diesel Engine Spec.	708	832	124	17.5	12	18	30	15.63	7
49-3040	Heavy Vehicle, Mobile Equip. Service Tech.	411	470	59	14.4	6	11	17	n/a	n/a
49-3041	Farm Equipment Mechanics	108	112	4	3.7	0	3	3	11.10	7
49-3042	Mobile Heavy Equip. Mech., Except Engines	275	336	61	22.2	6	7	13	16.53	7
49-3050	Small Engine Mechanics	135	154	19	14.1	2	3	5	n/a	n/a
49-3052	Motorcycle Mechanics	52	62	10	19.2	1	1	2	11.29	9
49-3053	Outdoor Power Equip. & Other Small Engine	70	79	9	12.9	1	2	3	10.33	10
49-3090	Misc. Vehicle and Mobile Equipment Mechanics	257	282	25	9.7	3	10	13	n/a	n/a
49-3092	Recreational Vehicle Service Technicians	*	*	*	*	*	*	*	9.90	9
49-3093	Tire Repairers and Changers	*	*	*	*	*	*	*	9.99	11
49-9000	Other Installation, Maintenance & Repair Occs	8,328	9,686	1,358	16.3	136	157	293	n/a	n/a
49-9010	Control and Valve Installers and Repairers	263	342	79	30.0	8	9	17	n/a	n/a
49-9012	Control, Valve Install & Repair, Ex. Mechanical	240	312	72	30.0	7	8	15	12.50	10
49-9021	Heating, Air Conditioning & Refrig. Mechanics	465	584	119	25.6	12	5	17	17.32	9
49-9031	Home Appliance Repairers	100	124	24	24.0	2	2	4	13.09	9
49-9040	Industrial Machinery Install, Repair & Maint.	5,527	6,322	795	14.4	80	90	170	n/a	n/a
49-9041	Industrial Machinery Mechanics	934	1,103	169	18.1	17	25	42	17.65	9
49-9042	Maintenance and Repair Workers, General	4,240	4,759	519	12.2	52	55	107	15.07	9
49-9043	Maintenance Workers, Machinery	190	249	59	31.1	6	5	11	15.15	9

Bluegrass Area

Installation, Maintenance & Repair Occs. (cont'd)

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010		Average Annual 2000-2010				
				Number	Percent	Growth	Separations	Total		
49-9050	Line Installers and Repairers	694	788	94	13.5	9	18	27	n/a	n/a
49-9051	Electrical Power-Line Installers and Repairers	330	366	36	10.9	4	11	15	20.18	9
49-9052	Telecommunications Line Installer & Repairer	364	422	58	15.9	6	7	13	16.87	9
49-9060	Precision Instrument and Equipment Repairers	178	216	38	21.3	4	4	8	n/a	n/a
49-9062	Medical Equipment Repairers	88	115	27	30.7	3	2	5	19.09	10
49-9063	Musical Instrument Repairers and Tuners	61	70	9	14.8	1	2	3	9.79	9
49-9090	Misc. Installation, Maintenance & Repair Work	1,101	1,310	209	19.0	21	30	51	n/a	n/a
49-9091	Coin, Vending & Amusement Machine Servicers	39	47	8	20.5	1	1	2	12.96	10
49-9094	Locksmiths and Safe Repairers	67	77	10	14.9	1	2	3	13.69	10
49-9096	Riggers	50	63	13	26.0	1	1	2	30.26	11
49-9098	Helpers--Installation, Maint. & Repair Workers	200	225	25	12.5	3	10	13	11.34	11
49-9099	Installation, Maint. & Repair Workers, All Other	443	513	70	15.8	7	9	16	18.03	9

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Production Occupations

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010 Growth Separations Total				
51-0000 Production Occupations		46,208	55,741	9,533	20.6	953	1,005	1,958	n/a	n/a
51-1000	Supervisors, Production Workers	2,717	3,189	472	17.4	47	71	118	n/a	n/a
51-1011	Supervisors of Production and Operating Work	2,717	3,189	472	17.4	47	71	118	20.92	8
51-2000	Assemblers and Fabricators	12,950	16,085	3,135	24.2	314	244	558	n/a	n/a
51-2020	Electrical, Electronics & Electromech. Assemb.	2,128	2,199	71	3.3	7	55	62	n/a	n/a
51-2022	Electrical & Electronic Equipment Assemblers	1,259	1,382	123	9.8	12	32	44	11.25	11
51-2041	Structural Metal Fabricators and Fitters	429	565	136	31.7	14	7	21	13.11	10
51-2090	Miscellaneous Assemblers and Fabricators	10,150	13,021	2,871	28.3	287	178	465	n/a	n/a
51-2092	Team Assemblers	6,002	7,544	1,542	25.7	154	105	259	16.12	10
51-2099	Assemblers and Fabricators, All Other	4,079	5,405	1,326	32.5	133	71	204	10.95	10
51-3000	Food Processing Workers	678	648	-30	-4.4	0	15	15	n/a	n/a
51-3011	Bakers	197	214	17	8.6	2	3	5	7.97	9
51-3020	Butchers, Meat, Poultry & Fish Processing Work	231	208	-23	-10.0	0	6	6	n/a	n/a
51-3021	Butchers and Meat Cutters	216	192	-24	-11.1	0	5	5	12.03	9
51-3090	Miscellaneous Food Processing Workers	250	226	-24	-9.6	0	6	6	n/a	n/a
51-4000	Metal Workers and Plastic Workers	12,876	16,196	3,320	25.8	332	305	637	n/a	n/a
51-4010	Computer Control Programmers and Operators	1,581	1,981	400	25.3	40	56	96	n/a	n/a
51-4011	Computer-Controlled Machine Tool Ops	1,444	1,803	359	24.9	36	51	87	12.46	9
51-4012	Numerical Tool & Process Control Programmer	137	178	41	29.9	4	5	9	15.67	9
51-4020	Forming Machine Setters, Operators & Tenders	1,093	1,431	338	30.9	34	26	60	n/a	n/a
51-4021	Extruding & Drawing Machine Setter, Operator	886	1,164	278	31.4	28	20	48	12.98	10
51-4022	Forging Machine Setters, Operators & Tenders	116	171	55	47.4	6	4	10	10.99	n/a
51-4023	Rolling Machine Setters, Operators & Tenders	91	96	5	5.5	1	3	4	14.71	10
51-4030	Machine Tool Cutting Setter, Operator & Tender	3,129	3,424	295	9.4	30	72	102	n/a	n/a
51-4031	Cutting, Punching & Press Machine Setters	2,317	2,561	244	10.5	24	45	69	11.89	10
51-4032	Drilling & Boring Machine Tool Setter, Operator	192	207	15	7.8	2	6	8	11.90	10
51-4033	Grinding, Lapping, Polishing & Buffing Machine	199	268	69	34.7	7	5	12	11.41	10
51-4034	Lathe & Turning Machine Tool Setter, Operator	235	239	4	1.7	0	9	9	13.51	10
51-4035	Milling & Planing Machine Setters, Operators	186	149	-37	-19.9	0	6	6	14.82	10
51-4041	Machinists	1,256	1,753	497	39.6	50	26	76	13.52	9
51-4060	Model Makers & Patternmakers, Metal & Plastic	*	*	*	*	*	*	*	n/a	n/a
51-4061	Model Makers, Metal and Plastic	*	*	*	*	*	*	*	16.47	10
51-4070	Molders & Molding Machine Setters, Operators	969	1,032	63	6.5	6	20	26	n/a	n/a
51-4072	Molding, Coremaking, Casting Machine Setters	913	966	53	5.8	5	19	24	12.91	10
51-4111	Tool and Die Makers	822	996	174	21.2	17	21	38	19.19	9

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Production Occupations (cont'd)

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training
Code	Title	2000	2010	2000-2010		Average Annual 2000-2010				
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2001	Req'd~
51-4120	Welding, Soldering, and Brazing Workers	1,442	1,974	532	36.9	53	41	94	n/a	n/a
51-4121	Welders, Cutters, Solderers, and Brazers	1,036	1,477	441	42.6	44	29	73	13.85	7
51-4122	Welding, Soldering & Brazing Machine Setters	406	497	91	22.4	9	11	20	14.11	10
51-4190	Miscellaneous Metalworkers & Plastic Workers	574	670	96	16.7	10	12	22	n/a	n/a
51-4191	Heat Treating Equipment Setters, Operators	67	80	13	19.4	1	1	2	12.09	10
51-4192	Lay-Out Workers, Metal and Plastic	56	55	-1	-1.8	0	1	1	12.54	10
51-4193	Plating and Coating Machine Setters, Operators	182	201	19	10.4	2	4	6	13.38	10
51-4194	Tool Grinders, Filers, and Sharpeners	73	83	10	13.7	1	2	3	13.60	n/a
51-4199	Metal Workers and Plastic Workers, All Other	*	*	*	*	*	*	*	12.08	10
51-5000	Printing Workers	1,340	1,818	478	35.7	48	34	82	n/a	n/a
51-5010	Bookbinders and Bindery Workers	269	454	185	68.8	19	7	26	n/a	n/a
51-5020	Printers	1,066	1,360	294	27.6	29	27	56	n/a	n/a
51-5021	Job Printers	124	171	47	37.9	5	3	8	12.01	9
51-5022	Prepress Technicians and Workers	370	410	40	10.8	4	9	13	11.91	9
51-5023	Printing Machine Operators	572	779	207	36.2	21	14	35	13.01	10
51-6000	Textile, Apparel, and Furnishings Workers	3,802	3,458	-344	-9.0	0	58	58	n/a	n/a
51-6011	Laundry and Dry-Cleaning Workers	551	550	-1	-0.2	0	15	15	7.76	10
51-6021	Pressers, Textile, Garment & Related Materials	458	398	-60	-13.1	0	6	6	8.97	11
51-6031	Sewing Machine Operators	2,241	1,965	-276	-12.3	0	24	24	9.41	10
51-6041	Shoe and Leather Workers and Repairers	*	*	*	*	*	*	*	10.44	9
51-6050	Tailors, Dressmakers, and Sewers	127	118	-9	-7.1	0	3	3	n/a	n/a
51-6052	Tailors, Dressmakers, and Custom Sewers	87	80	-7	-8.0	0	2	2	8.65	8
51-6060	Textile Machine Setters, Operators, and Tenders	194	189	-5	-2.6	0	3	3	n/a	n/a
51-6063	Textile Knitting & Weaving Machine Setters	*	*	*	*	*	*	*	10.47	9
51-6090	Misc. Textile, Apparel, and Furnishings Workers	201	205	4	2.0	0	6	6	n/a	n/a
51-6093	Upholsterers	*	*	*	*	*	*	*	12.57	n/a
51-7000	Woodworkers	631	834	203	32.2	20	23	43	n/a	n/a
51-7011	Cabinetmakers and Bench Carpenters	285	410	125	43.9	13	9	22	12.32	9
51-7021	Furniture Finishers	63	88	25	39.7	3	3	6	11.99	9
51-7040	Woodworking Machine Setter, Operator, Tender	265	315	50	18.9	5	11	16	n/a	n/a
51-7041	Sawing Machine Setters, Operators & Tenders	156	188	32	20.5	3	6	9	9.87	10
51-7042	Woodworking Machine Setters, Operators	109	127	18	16.5	2	4	6	9.37	10
51-8000	Plant and System Operators	811	1,024	213	26.3	21	25	46	n/a	n/a
51-8010	Power Plant Operator, Distributor & Dispatcher	126	128	2	1.6	0	4	4	n/a	n/a
51-8013	Power Plant Operators	111	115	4	3.6	0	3	3	16.47	9
51-8021	Stationary Engineers and Boiler Operators	83	82	-1	-1.2	0	2	2	14.82	9
51-8031	Water, Liquid Waste Treat. Plant & System Ops	398	579	181	45.5	18	13	31	14.63	9
51-8090	Miscellaneous Plant and System Operators	204	235	31	15.2	3	6	9	n/a	n/a
51-8099	Plant and System Operators, All Other	31	31	0	0.0	0	1	1	18.46	n/a

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Production Occupations (cont'd)

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010		Average Annual 2000-2010				
				Number	Percent	Growth	Separations	Total		
51-9000	Other Production Occupations	10,403	12,489	2,086	20.1	209	232	441	n/a	n/a
51-9010	Chemical Processing Machine Setter, Operator	141	161	20	14.2	2	3	5	n/a	n/a
51-9011	Chemical Equipment Operators and Tenders	76	89	13	17.1	1	2	3	15.22	10
51-9012	Separating, Filtering, Clarifying, Precipitating	65	72	7	10.8	1	2	3	13.13	10
51-9020	Crushi, Grind, Polish, Mix & Blend Workers	755	943	188	24.9	19	17	36	n/a	n/a
51-9021	Crushing, Grinding & Polishing Machine Setters	282	373	91	32.3	9	6	15	12.00	10
51-9022	Grinding and Polishing Workers, Hand	*	*	*	*	*	*	*	10.45	10
51-9023	Mixing, Blending Machine Setters, Operators	367	432	65	17.7	7	8	15	13.79	10
51-9030	Cutting Workers	339	332	-7	-2.1	0	6	6	n/a	n/a
51-9031	Cutters and Trimmers, Hand	*	*	*	*	*	*	*	9.70	11
51-9032	Cutting, Slicing Machine Setters, Operators	310	299	-11	-3.5	0	6	6	13.16	10
51-9041	Extrude, Form, Press & Compact. Mach. Setters	276	334	58	21.0	6	6	12	12.54	10
51-9051	Furnace, Kiln, Oven, Drier & Kettle Operators	217	257	40	18.4	4	6	10	16.99	10
51-9061	Inspector, Tester, Sorter, Sampler & Weigher	2,593	2,873	280	10.8	28	57	85	14.58	10
51-9071	Jewelers, Precious Stone and Metal Workers	*	*	*	*	*	*	*	16.02	7
51-9080	Medical, Dental & Ophthalmic Lab. Technicians	115	132	17	14.8	2	3	5	n/a	n/a
51-9081	Dental Laboratory Technicians	*	*	*	*	*	*	*	13.79	n/a
51-9082	Medical Appliance Technicians	*	*	*	*	*	*	*	13.08	9
51-9083	Ophthalmic Laboratory Technicians	71	82	11	15.5	1	2	3	10.63	n/a
51-9111	Packaging, Filling Machine Operator & Tender	761	908	147	19.3	15	17	32	13.45	11
51-9120	Painting Workers	1,442	1,904	462	32.0	46	32	78	n/a	n/a
51-9121	Coating, Painting & Spraying Machine Setters	535	601	66	12.3	7	12	19	12.69	10
51-9123	Painting, Coating, and Decorating Workers	101	131	30	29.7	3	2	5	13.08	11
51-9130	Photo. Process Workers & Processing Machine	159	216	57	35.8	6	4	10	n/a	n/a
51-9132	Photographic Processing Machine Operators	117	163	46	39.3	5	3	8	8.70	11
51-9190	Miscellaneous Production Workers	3,541	4,375	834	23.6	83	79	162	n/a	n/a
51-9191	Cementing & Gluing Machine Ops & Tenders	70	71	1	1.4	0	2	2	10.76	n/a
51-9192	Cleaning, Washing & Metal Pickling Equipment	*	*	*	*	*	*	*	10.51	n/a
51-9195	Molders, Shapers & Casters, Ex. Metal & Plastic	*	*	*	*	*	*	*	10.03	10
51-9196	Paper Goods Machine Setter, Operator, Tender	323	356	33	10.2	3	6	9	14.08	10
51-9198	Helpers--Production Workers	1,697	2,253	556	32.8	56	43	99	10.63	11
51-9199	Production Workers, All Other	1,206	1,431	225	18.7	23	22	45	13.35	10

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Transportation & Material Moving Occs.

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total	2001	Req'd~
53-0000 Transportation and Material Moving Occupations		26,324	33,233	6,909	26.2	691	625	1,316	n/a	n/a
53-1000	Supervisors, Transp. & Material Moving Worker	986	1,297	311	31.5	31	21	52	n/a	n/a
53-1021	Supervisors of Helpers, Laborers	452	606	154	34.1	15	10	25	18.74	8
53-1031	Supervisors of Transportation & Material Moving	520	673	153	29.4	15	11	26	18.13	8
53-2000	Air Transportation Workers	123	128	5	4.1	1	4	5	n/a	n/a
53-2010	Aircraft Pilots and Flight Engineers	93	97	4	4.3	0	2	2	n/a	n/a
53-2011	Airline Pilots, Copilots, and Flight Engineers	59	50	-9	-15.3	0	1	1	n/a	5
53-2012	Commercial Pilots	34	47	13	38.2	1	1	2	n/a	7
53-2021	Air Traffic Controllers	*	*	*	*	*	*	*	33.62	n/a
53-3000	Motor Vehicle Operators	9,981	12,200	2,219	22.2	222	151	373	n/a	n/a
53-3020	Bus Drivers	1,310	1,394	84	6.4	8	33	41	n/a	n/a
53-3022	Bus Drivers, School	1,261	1,322	61	4.8	6	32	38	11.20	11
53-3030	Driver/Sales Workers and Truck Drivers	8,019	9,947	1,928	24.0	193	110	303	n/a	n/a
53-3031	Driver/Sales Workers	704	760	56	8.0	6	10	16	13.23	11
53-3032	Truck Drivers, Heavy and Tractor-Trailer	4,987	6,159	1,172	23.5	117	69	186	17.05	10
53-3033	Truck Drivers, Light or Delivery Services	2,328	3,028	700	30.1	70	32	102	11.04	11
53-3041	Taxi Drivers and Chauffeurs	389	511	122	31.4	12	3	15	8.12	11
53-4000	Rail Transportation Workers	200	148	-52	-26.0	0	9	9	n/a	n/a
53-4010	Locomotive Engineers and Operators	82	77	-5	-6.1	0	4	4	n/a	n/a
53-4011	Locomotive Engineers	*	*	*	*	*	*	*	19.06	11
53-4012	Locomotive Firers	*	*	*	*	*	*	*	n/a	10
53-4041	Subway and Streetcar Operators	*	*	*	*	*	*	*	n/a	11
53-4099	Rail Transportation Workers, All Other	*	*	*	*	*	*	*	n/a	11
53-5000	Water Transportation Workers	*	*	*	*	*	*	*	n/a	n/a
53-5021	Captains, Mates, and Pilots of Water Vessels	*	*	*	*	*	*	*	12.73	8
53-6000	Other Transportation Workers	489	596	107	21.9	11	16	27	n/a	n/a
53-6021	Parking Lot Attendants	176	224	48	27.3	5	3	8	6.63	n/a
53-6031	Service Station Attendants	114	128	14	12.3	1	6	7	7.59	11
53-6051	Transportation Inspectors	59	63	4	6.8	0	2	2	21.73	8
53-7000	Material Moving Workers	14,523	18,838	4,315	29.7	432	424	856	n/a	n/a
53-7011	Conveyor Operators and Tenders	127	133	6	4.7	1	4	5	12.13	11
53-7021	Crane and Tower Operators	177	190	13	7.3	1	5	6	15.33	10
53-7030	Dredge, Excavating, Loading Machine Operator	213	262	49	23.0	5	6	11	n/a	n/a
53-7032	Excavating, Loading Mach. & Dragline Operator	*	*	*	*	*	*	*	18.85	10
53-7051	Industrial Truck and Tractor Operators	2,450	2,824	374	15.3	37	34	71	12.32	11

~ Education/Training Required Codes- Page 39

n/a - Not Available

* Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Bluegrass Area

Transportation & Material Moving Occs. (cont'd)

Occupational Employment Outlook and Job Openings

Occupational		Employment*		Change		Job Openings			Average Wage 2001	Educ/ Training Req'd~
Code	Title	2000 Estimated	2010 Projected	2000-2010 Number	2000-2010 Percent	Average Annual 2000-2010				
						Growth	Separations	Total		
53-7060	Laborers and Material Movers, Hand	11,157	14,955	3,798	34.0	380	360	740	n/a	n/a
53-7061	Cleaners of Vehicles and Equipment	1,108	1,303	195	17.6	20	42	62	8.05	11
53-7062	Laborers, Freight, Stock, Material Movers, Hand	6,681	9,439	2,758	41.3	276	223	499	9.34	11
53-7063	Machine Feeders and Offbearers	936	1,017	81	8.7	8	33	41	10.47	11
53-7064	Packers and Packagers, Hand	2,432	3,196	764	31.4	76	62	138	8.37	11
53-7081	Refuse and Recyclable Material Collectors	272	337	65	23.9	7	12	19	8.91	11
53-7199	Material Moving Workers, All Other	*	*	*	*	*	*	*	10.58	11

~ Education/Training Required Codes- Page 39 n/a - Not Available * Employment under 30 and unreliable data suppressed

Source: Kentucky Education Cabinet, Department for Employment Services, Research and Statistics Branch

Educational Classifications

Occupations are classified into one of eleven categories listed according to these principles:

- An occupation is placed into the category that best describes the education or training needed by most workers to become fully qualified.
- Postsecondary awards, if generally needed for entry into the occupation, take precedence over work-related training even though additional skills or experience may be needed for a worker to become fully qualified.
- The length of time an average worker generally needs to become fully qualified through a combination of on-the-job training and experience is used to categorize occupations in which a post secondary award generally is needed for entry.

Postsecodary awards

(1) **First professional degree.** Completion of the degree usually requires at least 3 years of full-time academic study beyond a bachelor's degree.

(2) **Doctoral degree.** Completion of a Ph.D. or other doctoral degree usually requiries at least 3 years of full-time academic study beyond a bachelor's degree.

(3) **Master's degree.** Completion of the degree usually requires 1 or 2 years of full time academic study beyond a bachelor's degree.

(4) **Bachelor's degree.** Completion of the degree generally requires at least 4 years, but not more than 5 years, of full-time academic study.

(5) **Bachelor's or higher degree, plus work experience.** Most occupations in this category are management occupations. All require experience in a related non-management position for which a bachelor's or higher degree is usually required.

(6) **Associate degree.** Completion of the degree usually requires at least 2 years of full-time academic study.

(7) **Postsecondary vocational awards.** Some programs last only a few weeks while others may last more than a year. Programs lead to a certificate or other award, but not a degree.

Work-related training

(8) **Work experience in a related occupation.** Many occupations requiring work experience are first-line supervisors/managers of service, sales and related, production, or other occupations, or are management occupations.

(9) **Long-term on-the-job training.** More than 12 months on on-the-job training or combined work experience and formal classroom instruction are needed for workers to develop the skills necessary to be fully qualified. This category includes formal and informal apprenticeships that may last up to 5 years. Long-term on-the-job training also includes intensive occupation-specific, employer-sponsored programs that workers must successfully complete. These include fire and police academies and schools for air traffic controllers and flight attendants. In other occupations—insurance sales and securities sales, for example—trainees take formal courses, often provided on the job site, to prepare for the required licensing exams. Individuals undergoing training generally are considered to be employed in the occupation. Also included in this category is the development of a natural ability—such as that possessed by musicians, atheletes, actors, and other entertainers—that must be cultivated over several years, frequently in a nonwork setting.

(10) **Moderate-term on-the-job training.** Skills needed to be fully qualified can be acquired during 1 to 12 months of combined on-the-job experience and informal training.

(11) **Short-term on-the-job training.** Skills needed to be fully qulaified can be acquired during a short demonstration of job duties or during 1 month or less of on-the-job experience or instruction.

Occupational Title	SOC Code	Page Number
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Accountants and Auditors	13-2011	10
Actors, Producers, and Directors	27-2010	18
Administrative Services Managers	11-3011	9
Adult Literacy, Remedial Ed. & GED Teachers	25-3011	17
Advertising and Promotions Managers	11-2011	9
Advertising Sales Agents	41-3011	27
Advertising, Marketing, Promotions, PR & Sales	11-2000	9
Agricultural and Food Science Technicians	19-4011	13
Agricultural Equipment Operators	45-2091	30
Agricultural Managers	11-9010	9
Agricultural Workers	45-2000	30
Agricultural Workers, All Other	45-2099	30
Air Traffic Controllers	53-2021	38
Air Transportation Workers	53-2000	38
Aircraft Mechanics & Service Tech., FAA Certified	49-3012	33
Aircraft Mechanics and Service Technicians	49-3010	33
Aircraft Pilots and Flight Engineers	53-2010	38
Airline Pilots, Copilots, and Flight Engineers	53-2011	38
Amusement and Recreation Attendants	39-3091	26
Animal Breeders	45-2021	30
Animal Care and Service Workers	39-2000	26
Animal Control Workers	33-9011	23
Animal Trainers	39-2011	26
Anthropologists and Archeologists	19-3091	13
Appraisers and Assessors of Real Estate	13-2021	10
Architects, Except Landscape and Naval	17-1011	12
Architects, Except Naval	17-1010	12
Architects, Surveyors, and Cartographers	17-1000	12
Architectural and Civil Drafters	17-3011	12
Archivists, Curators, and Museum Technicians	25-4010	17
Art and Design Workers	27-1000	18
Art and Design Workers, All Other	27-1099	18
Art Directors	27-1011	18
Artists and Related Workers	27-1010	18
Arts, Communications & Humanities Teachers	25-1120	16
Assemblers and Fabricators	51-2000	35
Assemblers and Fabricators, All Other	51-2099	35
Athletes, Coaches, Umpires & Related Workers	27-2020	18

Occupational Title	SOC Code	Page Number
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Athletic Trainers	29-9091	21
Atmospheric, Earth, Marine, Space Sci. Teach.	25-1051	16
Audio and Video Equipment Technicians	27-4011	19
Audiologists	29-1121	20
Audio-Visual Collections Specialists	25-9011	17
Automotive Body and Related Repairers	49-3021	33
Automotive Service Technicians and Mechanics	49-3023	33
Automotive Technicians and Repairers	49-3020	33

--- B ---

Baggage Porters and Bellhops	39-6011	26
Baggage Porters, Bellhops, and Concierges	39-6010	26
Bailiffs	33-3011	23
Bailiffs, Correctional Officers, and Jailers	33-3010	23
Bakers	51-3011	35
Barbers and Cosmetologists	39-5010	26
Bartenders	35-3011	24
Bill and Account Collectors	43-3011	28
Billing, Posting Clerks & Machine Operators	43-3021	28
Biological Scientists	19-1020	13
Boilermakers	47-2011	31
Bookbinders and Bindery Workers	51-5010	36
Bookkeeping, Accounting, and Auditing Clerks	43-3031	28
Brickmasons and Blockmasons	47-2021	31
Brickmasons, Blockmasons & Stonemasons	47-2020	31
Broadcast & Sound Eng. Tech. & Radio Ops.	27-4010	19
Brokerage Clerks	43-4011	28
Budget Analysts	13-2031	10
Build., Grounds Clean. & Maint. Work, All Other	37-9099	25
Building Cleaning and Pest Control Workers	37-2000	25
Building Cleaning Workers	37-2010	25
Bus Drivers	53-3020	38
Bus Drivers, School	53-3022	38
Bus, Truck Mechanics & Diesel Engine Spec.	49-3031	33
Business Operations Specialists	13-1000	10
Business Operations Specialists, All Other	13-1199	10
Business Teachers, Postsecondary	25-1011	16
Butchers and Meat Cutters	51-3021	35
Butchers, Meat, Poultry & Fish Processing Work	51-3020	35
Buyers and Purchasing Agents	13-1020	10

Occupational Title	SOC Code	Page Number
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--- C ---

Cabinetmakers and Bench Carpenters	51-7011	36
Camera Operators, TV, Video & Motion Picture	27-4031	19
Captains, Mates, and Pilots of Water Vessels	53-5021	38
Cardiovascular Technologists and Technicians	29-2031	20
Cargo and Freight Agents	43-5011	28
Carpenters	47-2031	31
Carpet Installers	47-2041	31
Carpet, Floor, and Tile Installers and Finishers	47-2040	31
Cartographers and Photogrammetrists	17-1021	12
Cashiers	41-2010	27
Cashiers	41-2011	27
Cement Masons and Concrete Finishers	47-2051	31
Cementing & Gluing Machine Ops & Tenders	51-9191	37
Chefs and Head Cooks	35-1011	24
Chemical Equipment Operators and Tenders	51-9011	37
Chemical Processing Machine Setter, Operator	51-9010	37
Chemical Technicians	19-4031	13
Chemistry Teachers, Postsecondary	25-1052	16
Chemists	19-2031	13
Chemists and Materials Scientists	19-2030	13
Chief Executives	11-1011	9
Child Care Workers	39-9011	26
Child, Family, and School Social Workers	21-1021	14
Choreographers	27-2032	18
Civil Engineering Technicians	17-3022	12
Civil Engineers	17-2051	12
Claims Adjuster, Appraiser, Examiner & Invest.	13-1030	10
Claims Adjusters, Examiners, and Investigators	13-1031	10
Cleaners of Vehicles and Equipment	53-7061	39
Cleaning, Washing & Metal Pickling Equipment	51-9192	37
Clergy	21-2011	14
Clinical Laboratory Technologist & Technician	29-2010	20
Clinical, Counseling, and School Psychologists	19-3031	13
Coaches and Scouts	27-2022	18
Coating, Painting & Spraying Machine Setters	51-9121	37
Coin, Vending & Amusement Machine Servicers	49-9091	34
Combined Food Preparation & Serving Workers	35-3021	24

Occupational Title	SOC Code	Page Number
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Commercial and Industrial Designers	27-1021	18
Commercial Pilots	53-2012	38
Communications Equipment Operators	43-2000	28
Compensation, Benefits & Job Analysis Spec.	13-1072	10
Compliance Officer, Ex. Ag., Const., Health	13-1041	10
Computer and Information Systems Managers	11-3021	9
Computer Control Programmers and Operators	51-4010	35
Computer Operators	43-9011	29
Computer Programmers	15-1021	11
Computer Science Teachers, Postsecondary	25-1021	16
Computer Software Eng., Systems Software	15-1032	11
Computer Software Engineers	15-1030	11
Computer Software Engineers, Applications	15-1031	11
Computer Specialists	15-1000	11
Computer Specialists, All Other	15-1099	11
Computer Support Specialists	15-1041	11
Computer Systems Analysts	15-1051	11
Computer-Controlled Machine Tool Ops	51-4011	35
Concierges	39-6012	26
Conservation Scientists	19-1031	13
Conservation Scientists and Foresters	19-1030	13
Const. Trades & Related Workers, All Other	47-4999	32
Construction and Building Inspectors	47-4011	32
Construction Equipment Operators	47-2070	31
Construction Laborers	47-2061	31
Construction Managers	11-9021	9
Construction Trades Workers	47-2000	31
Control and Valve Installers and Repairers	49-9010	33
Control, Valve Install & Repair, Ex. Mechanical	49-9012	33
Conveyor Operators and Tenders	53-7011	38
Cooks	35-2010	24
Cooks and Food Preparation Workers	35-2000	24
Cooks, Fast Food	35-2011	24
Cooks, Institution and Cafeteria	35-2012	24
Cooks, Private Household	35-2013	24
Cooks, Restaurant	35-2014	24
Cooks, Short Order	35-2015	24
Correctional Officers and Jailers	33-3012	23
Correspondence Clerks	43-4021	28
Cost Estimators	13-1051	10

Occupational Title	SOC Code	Page Number
Counselor, Social Worker & Other Community	21-1000	14
Counselors	21-1010	14
Counselors, Social & Religious Work., All Other	21-9099	14
Counter and Rental Clerks	41-2021	27
Counter Attend., Cafeteria, Food Concession	35-3022	24
Counter, Rental Clerks & Parts Salespersons	41-2020	27
Couriers and Messengers	43-5021	28
Crane and Tower Operators	53-7021	38
Credit Analysts	13-2041	10
Credit Authorizers, Checkers, and Clerks	43-4041	28
Crossing Guards	33-9091	23
Crushi, Grind, Polish, Mix & Blend Workers	51-9020	37
Crushing, Grinding & Polishing Machine Setters	51-9021	37
Customer Service Representatives	43-4051	28
Cutters and Trimmers, Hand	51-9031	37
Cutting Workers	51-9030	37
Cutting, Punching & Press Machine Setters	51-4031	35
Cutting, Slicing Machine Setters, Operators	51-9032	37

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Dancers and Choreographers	27-2030	18
Data Entry and Information Processing Workers	43-9020	29
Data Entry Keyers	43-9021	29
Database Administrators	15-1061	11
Dental Assistants	31-9091	22
Dental Hygienists	29-2021	20
Dental Laboratory Technicians	51-9081	37
Dentists	29-1020	20
Derrick, Rotary Drill & Service Unit Operators	47-5010	32
Designers	27-1020	18
Desktop Publishers	43-9031	29
Detectives and Criminal Investigators	33-3021	23
Diagnostic Medical Sonographers	29-2032	20
Diagnostic Related Technologist & Technician	29-2030	20
Dietetic Technicians	29-2051	21
Dietitians and Nutritionists	29-1031	20
Dining Room, Cafeteria Attend., Bartender Help	35-9011	24
Dishwashers	35-9021	24

Occupational Title	SOC Code	Page Number
Dispatchers	43-5030	28
Dispatchers, Except Police, Fire & Ambulance	43-5032	28
Drafters	17-3010	12
Drafters, Engineering & Mapping Technicians	17-3000	12
Drafters, Engineering, Mapping Tech., All Other	17-3099	12
Dredge, Excavating, Loading Machine Operator	53-7030	38
Drilling & Boring Machine Tool Setter, Operator	51-4032	35
Driver/Sales Workers	53-3031	38
Driver/Sales Workers and Truck Drivers	53-3030	38
Drywall and Ceiling Tile Installers	47-2081	31
Drywall, Ceiling Tile Installers & Tapers	47-2080	31

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Earth Drillers, Except Oil and Gas	47-5021	32
Economists	19-3011	13
Editors	27-3041	18
Education & Library Science Teachers, Postsec.	25-1080	16
Education Admin., Elementary & Secondary	11-9032	9
Education Admin., Preschool & Child Care	11-9031	9
Education Administrators	11-9030	9
Education Administrators, Postsecondary	11-9033	9
Education Teachers, Postsecondary	25-1081	16
Education, Training & Library Workers, All Other	25-9099	17
Educational, Vocational & School Counselors	21-1012	14
Electric Motor, Power Tool & Related Repairers	49-2092	33
Electrical & Electronic Engineering Technicians	17-3023	12
Electrical & Electronic Equip. Mechanics	49-2099	33
Electrical & Electronic Equipment Assemblers	51-2022	35
Electrical & Electronic Equipment Mechanics	49-2000	33
Electrical & Electronics Repair, Comm. & Ind	49-2094	33
Electrical & Electronics Repair, Powerhouse	49-2095	33
Electrical and Electronics Drafters	17-3012	12
Electrical and Electronics Engineers	17-2070	12
Electrical Engineers	17-2071	12
Electrical Power-Line Installers and Repairers	49-9051	34
Electrical, Electronics & Electromech. Assemb.	51-2020	35
Electricians	47-2111	31
Electro-Mechanical Technicians	17-3024	12

Occupational Title	SOC Code	Page Number
Electronic Home Entertain. Equip. Installers	49-2097	33
Electronics Engineers, Except Computer	17-2072	12
Elementary and Middle School Teachers	25-2020	16
Elementary School Teachers, Ex. Special Ed.	25-2021	16
Eligibility Interviewers, Government Programs	43-4061	28
Embalmers	39-4011	26
Emergency Management Specialists	13-1061	10
Emergency Medical Technicians & Paramedics	29-2041	20
Employment, Recruitment & Placement Spec.	13-1071	10
Engineering & Architecture Teachers, Postsec.	25-1030	16
Engineering Managers	11-9041	9
Engineering Technicians, Except Drafters	17-3020	12
Engineers	17-2000	12
Engineers, All Other	17-2199	12
English Language and Literature Teachers	25-1123	16
Entertain. & Performers, Sports & Related	27-2000	18
Entertainment Attendants and Related Workers	39-3000	26
Environmental Engineering Technicians	17-3025	12
Environmental Engineers	17-2081	12
Environmental Sci. & Protection Technicians	19-4091	13
Environmental Scientists & Specialists	19-2041	13
Environmental Scientists and Geoscientists	19-2040	13
Excavating, Loading Mach. & Dragline Operator	53-7032	38
Executive Secretaries & Admin. Assistants	43-6011	29
Explosives Worker, Ordnance Handling Expert	47-5031	32
Extraction Workers	47-5000	32
Extrude, Form, Press & Compact. Mach. Setters	51-9041	37
Extruding & Drawing Machine Setter, Operator	51-4021	35

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Family and General Practitioners	29-1062	20
Farm Equipment Mechanics	49-3041	33
Farm, Ranch, and Other Agricultural Managers	11-9011	9
Farmers and Ranchers	11-9012	9
Farmwork., Laborer, Crop, Nursery, Greenhouse	45-2092	30
Farmworkers, Farm and Ranch Animals	45-2093	30
Fashion Designers	27-1022	18
Fast Food and Counter Workers	35-3020	24
Fence Erectors	47-4031	32

Occupational Title	SOC Code	Page Number
File Clerks	43-4071	28
Financial Analysts and Advisors	13-2050	10
Financial Clerks	43-3000	28
Financial Examiners	13-2061	10
Financial Managers	11-3031	9
Financial Specialists	13-2000	10
Financial Specialists, All Other	13-2099	10
Financial, Information, Record Clerks, All Other	43-4999	28
Fine Artists, Inc. Painters, Sculptors & Illustrator	27-1013	18
Fire Fighters	33-2011	23
Fire Fighting and Prevention Workers	33-2000	23
Fire Inspectors and Investigators	33-2021	23
Fishers and Related Fishing Workers	45-3010	30
Fishing and Hunting Workers	45-3000	30
Fitness Trainers and Aerobics Instructors	39-9031	26
Floral Designers	27-1023	18
Food and Beverage Serving Workers	35-3000	24
Food Preparation Workers	35-2021	24
Food Processing Workers	51-3000	35
Food Servers, Nonrestaurant	35-3041	24
Food Service Managers	11-9051	9
Forest, Conservation, and Logging Workers	45-4000	30
Foresters	19-1032	13
Forging Machine Setters, Operators & Tenders	51-4022	35
Forming Machine Setters, Operators & Tenders	51-4020	35
Funeral Attendants	39-4021	26
Funeral Directors	11-9061	9
Funeral Service Workers	39-4000	26
Furnace, Kiln, Oven, Drier & Kettle Operators	51-9051	37
Furniture Finishers	51-7021	36

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General and Operations Managers	11-1021	9
Geography Teachers, Postsecondary	25-1064	16
Glaziers	47-2121	31
Graders and Sorters, Agricultural Products	45-2040	30
Graders and Sorters, Agricultural Products	45-2041	30
Graphic Designers	27-1024	18
Grinding and Polishing Workers, Hand	51-9022	37

Occupational Title	SOC Code	Page Number
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Grinding, Lapping, Polishing & Buffing Machine	51-4033	35
Grounds Maintenance Workers	37-3000	25
Grounds Maintenance Workers	37-3010	25

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Hairdressers, Hairstylists, and Cosmetologists	39-5012	26
Hazardous Materials Removal Workers	47-4041	32
Health and Safety Engineers, Ex. Mining Safety	17-2111	12
Health Diag. & Treating Pract. Support Tech	29-2050	21
Health Diagnosing & Treating Pract., All Other	29-1199	20
Health Diagnosing and Treating Practitioners	29-1000	20
Health Educators	21-1091	14
Health Specialties Teachers, Postsecondary	25-1071	16
Health Teachers, Postsecondary	25-1070	16
Health Technologists and Technicians	29-2000	20
Healthcare Pract. & Technical Worker, All Other	29-9099	21
Healthcare Support Workers, All Other	31-9099	22
Heat Treating Equipment Setters, Operators	51-4191	36
Heating, Air Conditioning & Refrig. Mechanics	49-9021	33
Heavy Vehicle, Mobile Equip. Service Tech.	49-3040	33
Helpers, Construction Trades	47-3000	31
Helpers, Construction Trades	47-3010	31
Helpers, Construction Trades, All Other	47-3019	31
Helpers--Brick, Block & Stonemasons & Tile	47-3011	31
Helpers--Carpenters	47-3012	31
Helpers--Electricians	47-3013	31
Helpers--Extraction Workers	47-5081	32
Helpers--Installation, Maint. & Repair Workers	49-9098	34
Helpers--Pipelayer, Plumber, Pipe & Steamfitter	47-3015	31
Helpers--Production Workers	51-9198	37
Helpers--Roofers	47-3016	31
Highway Maintenance Workers	47-4051	32
History Teachers, Postsecondary	25-1125	16
Home Appliance Repairers	49-9031	33
Home Health Aides	31-1011	22
Hosts and Hostesses, Restaurant, Lounge	35-9031	24
Hotel, Motel, and Resort Desk Clerks	43-4081	28
Human Res. Assist., Ex. Payroll & Timekeeping	43-4161	28
Human Res., Training & Labor Relations Spec.	13-1070	10
Human Resources Managers	11-3040	9

Occupational Title	SOC Code	Page Number
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Industrial Engineering Technicians	17-3026	12
Industrial Engineers	17-2112	12
Industrial Engineers, Inc. Health and Safety	17-2110	12
Industrial Machinery Install, Repair & Maint.	49-9040	33
Industrial Machinery Mechanics	49-9041	33
Industrial Production Managers	11-3051	9
Industrial Truck and Tractor Operators	53-7051	38
Information and Record Clerks	43-4000	28
Inspector, Tester, Sorter, Sampler & Weigher	51-9061	37
Installation, Maint. & Repair Workers, All Other	49-9099	34
Instructional Coordinators	25-9031	17
Insulation Workers	47-2130	31
Insurance Appraisers, Auto Damage	13-1032	10
Insurance Claims and Policy Processing Clerks	43-9041	29
Insurance Sales Agents	41-3021	27
Interior Designers	27-1025	18
Internists, General	29-1063	20
Interpreters and Translators	27-3091	18
Interviewers, Except Eligibility and Loan	43-4111	28

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Janitors & Cleaners, Ex. Maids & Housekeeping	37-2011	25
Jewelers, Precious Stone and Metal Workers	51-9071	37
Job Printers	51-5021	36
Judges, Magistrates & Other Judicial Workers	23-1020	15

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Kindergarten Teachers, Ex. Special Education	25-2012	16
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Laborers and Material Movers, Hand	53-7060	39
Laborers, Freight, Stock, Material Movers, Hand	53-7062	39
Landscape Architects	17-1012	12

Occupational Title	SOC Code	Page Number
Landscaping and Groundskeeping Workers	37-3011	25
Lathe & Turning Machine Tool Setter, Operator	51-4034	35
Laundry and Dry-Cleaning Workers	51-6011	36
Law Clerks	23-2092	15
Law Enforcement Workers	33-3000	23
Law, Criminal Justice & Social Work Teachers	25-1110	16
Lawyers	23-1011	15
Lawyers, Judges, and Related Workers	23-1000	15
Lay-Out Workers, Metal and Plastic	51-4192	36
Legal and Related Workers, All Other	23-9099	15
Legal Secretaries	43-6012	29
Legal Support Workers	23-2000	15
Librarians	25-4021	17
Librarians, Curators, and Archivists	25-4000	17
Library Assistants, Clerical	43-4121	28
Library Technicians	25-4031	17
Library, Museum, Training & Other Ed., All Other	25-9199	17
Licensed Practical & Vocational Nurses	29-2061	21
Life Sciences Teachers, Postsecondary	25-1040	16
Life Scientists	19-1000	13
Life Scientists, All Other	19-1099	13
Life, Physical, and Social Science Technicians	19-4000	13
Line Installers and Repairers	49-9050	34
Loan Counselors and Officers	13-2070	10
Loan Officers	13-2072	10
Locker Room, Coat & Dressing Room Attend.	39-3093	26
Locksmiths and Safe Repairers	49-9094	34
Locomotive Engineers	53-4011	38
Locomotive Engineers and Operators	53-4010	38
Locomotive Firers	53-4012	38
Lodging Managers	11-9081	9
Logging Workers	45-4020	30

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Machine Feeders and Offbearers	53-7063	39
Machine Tool Cutting Setter, Operator & Tender	51-4030	35
Machinists	51-4041	35
Maids and Housekeeping Cleaners	37-2012	25
Mail Clerks & Mail Machine Ops, Ex. Postal Serv	43-9051	29

Occupational Title	SOC Code	Page Number
Maintenance and Repair Workers, General	49-9042	33
Maintenance Workers, Machinery	49-9043	33
Management Analysts	13-1111	10
Managers, All Other	11-9199	9
Manicurists and Pedicurists	39-5092	26
Market and Survey Researchers	19-3020	13
Market Research Analysts	19-3021	13
Marketing and Sales Managers	11-2020	9
Marketing Managers	11-2021	9
Massage Therapists	31-9011	22
Material Moving Workers	53-7000	38
Material Moving Workers, All Other	53-7199	39
Material Record, Schedule, Dispatch, Distribute	43-5000	28
Material Record, Schedule, Dispatch, Distribute	43-5199	29
Materials Engineers	17-2131	12
Math and Computer Teachers, Postsecondary	25-1020	16
Mathematical Sci. Teachers, Postsecondary	25-1022	16
Mathematical Scientists	15-2000	11
Mechanical Drafters	17-3013	12
Mechanical Engineering Technicians	17-3027	12
Mechanical Engineers	17-2141	12
Media & Comm. Equip. Workers, All Other	27-4099	19
Media and Communication Equipment Workers	27-4000	19
Media and Communication Workers	27-3000	18
Media and Communication Workers, All Other	27-3099	18
Medical and Clinical Laboratory Technicians	29-2012	20
Medical and Clinical Laboratory Technologists	29-2011	20
Medical and Health Services Managers	11-9111	9
Medical and Public Health Social Workers	21-1022	14
Medical Appliance Technicians	51-9082	37
Medical Assistants	31-9092	22
Medical Equipment Preparers	31-9093	22
Medical Equipment Repairers	49-9062	34
Medical Records & Health Information Tech.	29-2071	21
Medical Scientists	19-1040	13
Medical Secretaries	43-6013	29
Medical Transcriptionists	31-9094	22
Medical, Dental & Ophthalmic Lab. Technicians	51-9080	37
Meeting and Convention Planners	13-1121	10
Mental Health & Substance Abuse Social Work.	21-1023	14
Mental Health Counselors	21-1014	14

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Metal Workers and Plastic Workers	51-4000	35
Metal Workers and Plastic Workers, All Other	51-4199	36
Meter Readers, Utilities	43-5041	28
Middle School Teacher, Ex. Special & Voc. Ed.	25-2022	16
Milling & Planing Machine Setters, Operators	51-4035	35
Misc. Building, Grounds Cleaning & Maint. Work	37-9000	25
Misc. Community and Social Service Specialists	21-1090	14
Misc. Counselors, Social, & Religious Workers	21-9000	14
Misc. Education, Training, and Library Workers	25-9090	17
Misc. Electrical & Electronic Equipment	49-2090	33
Misc. Entertainment Attend. & Related Workers	39-3090	26
Misc. Health Practitioners & Technical Workers	29-9090	21
Misc. Installation, Maintenance & Repair Work	49-9090	34
Misc. Life, Physical & Social Science Technician	19-4090	13
Misc. Media and Communication Workers	27-3090	18
Misc. Social Scientists and Related Workers	19-3090	13
Misc. Textile, Apparel, and Furnishings Workers	51-6090	36
Misc. Vehicle and Mobile Equipment Mechanics	49-3090	33
Miscellaneous Agricultural Workers	45-2090	30
Miscellaneous Assemblers and Fabricators	51-2090	35
Miscellaneous Food Processing Workers	51-3090	35
Miscellaneous Healthcare Support Occupations	31-9090	22
Miscellaneous Legal & Related Workers	23-9000	15
Miscellaneous Legal Support Workers	23-2090	15
Miscellaneous Metalworkers & Plastic Workers	51-4190	36
Miscellaneous Personal Appearance Workers	39-5090	26
Miscellaneous Plant and System Operators	51-8090	36
Miscellaneous Postsecondary Teachers	25-1190	16
Miscellaneous Production Workers	51-9190	37
Miscellaneous Protective Service Workers	33-9090	23
Miscellaneous Sales and Related Workers	41-9090	27
Mixing, Blending Machine Setters, Operators	51-9023	37
Mobile Heavy Equip. Mech., Except Engines	49-3042	33
Model Makers & Patternmakers, Metal & Plastic	51-4060	35
Model Makers, Metal and Plastic	51-4061	35
Models, Demonstrators & Product Promoters	41-9010	27
Molders & Molding Machine Setters, Operators	51-4070	35
Molders, Shapers & Casters, Ex. Metal & Plastic	51-9195	37
Molding, Coremaking, Casting Machine Setters	51-4072	35
Motor Vehicle Operators	53-3000	38

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Motorcycle Mechanics	49-3052	33
Multi-Media Artists and Animators	27-1014	18
Musical Instrument Repairers and Tuners	49-9063	34
Musicians, Singers, and Related Workers	27-2040	18
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Natural Sciences Managers	11-9121	9
Network and Computer Systems Administrators	15-1071	11
Network Systems & Data Comm. Analysts	15-1081	11
New Accounts Clerks	43-4141	28
News Analysts, Reporters and Correspondents	27-3020	18
Nonfarm Animal Caretakers	39-2021	26
Nuclear Medicine Technologists	29-2033	20
Numerical Tool & Process Control Programmer	51-4012	35
Nursing Aides, Orderlies, and Attendants	31-1012	22
Nursing Instructors & Teachers, Postsec.	25-1072	16
Nursing, Psychiatric, and Home Health Aides	31-1000	22
Nursing, Psychiatric, and Home Health Aides	31-1010	22
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Occupational Health, Safety Specialists & Tech.	29-9010	21
Occupational Therapist Aides	31-2012	22
Occupational Therapist Assistants	31-2011	22
Occupational Therapist Assistants and Aides	31-2010	22
Occupational Therapists	29-1122	20
Occupational, Physical Therapist Assist. & Aide	31-2000	22
Office Clerks, General	43-9061	29
Office Machine Operators, Except Computer	43-9071	29
Operating Engineers & Other Const. Equip. Ops	47-2073	31
Operations Research Analysts	15-2031	11
Operations Specialties Managers	11-3000	9
Ophthalmic Laboratory Technicians	51-9083	37
Opticians, Dispensing	29-2081	21
Optometrists	29-1041	20
Order Clerks	43-4151	28
Other Construction and Related Workers	47-4000	32
Other Education, Training, Library Occupations	25-9000	17

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Other Healthcare Practitioners & Tech. Occs	29-9000	21
Other Healthcare Support Occupations	31-9000	22
Other Installation, Maintenance & Repair Occs	49-9000	33
Other Management Occupations	11-9000	9
Other Office & Administrative Support Workers	43-9000	29
Other Personal Care and Service Workers	39-9000	26
Other Production Occupations	51-9000	37
Other Protective Service Workers	33-9000	23
Other Sales and Related Workers	41-9000	27
Other Teachers and Instructors	25-3000	17
Other Transportation Workers	53-6000	38
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Packaging, Filling Machine Operator & Tender	51-9111	37
Packers and Packagers, Hand	53-7064	39
Painters and Paperhangers	47-2140	31
Painters, Construction and Maintenance	47-2141	31
Painting Workers	51-9120	37
Painting, Coating, and Decorating Workers	51-9123	37
Paper Goods Machine Setter, Operator, Tender	51-9196	37
Paralegals and Legal Assistants	23-2011	15
Parking Lot Attendants	53-6021	38
Parts Salespersons	41-2022	27
Paving, Surfacing & Tamping Equip. Operators	47-2071	31
Payroll and Timekeeping Clerks	43-3051	28
Pediatricians, General	29-1065	20
Personal and Home Care Aides	39-9021	26
Personal Appearance Workers	39-5000	26
Personal Care and Service Workers, All Other	39-9099	26
Personal Financial Advisors	13-2052	10
Pharmacists	29-1051	20
Pharmacy Aides	31-9095	22
Pharmacy Technicians	29-2052	21
Photo. Process Workers & Processing Machine	51-9130	37
Photographers	27-4021	19
Photographic Processing Machine Operators	51-9132	37

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Physical Sciences Teachers, Postsecondary	25-1050	16
Physical Scientists	19-2000	13
Physical Therapist Aides	31-2022	22
Physical Therapist Assistants	31-2021	22
Physical Therapist Assistants and Aides	31-2020	22
Physical Therapists	29-1123	20
Physician Assistants	29-1071	20
Physicians and Surgeons	29-1060	20
Physics Teachers, Postsecondary	25-1054	16
Pipelayers	47-2151	31
Pipelayers, Plumbers, Pipefitters & Steamfitters	47-2150	31
Plant and System Operators	51-8000	36
Plant and System Operators, All Other	51-8099	36
Plasterers and Stucco Masons	47-2161	31
Plating and Coating Machine Setters, Operators	51-4193	36
Plumbers, Pipefitters, and Steamfitters	47-2152	31
Police and Sheriff's Patrol Officers	33-3051	23
Police, Fire, and Ambulance Dispatchers	43-5031	28
Political Science Teachers, Postsecondary	25-1065	16
Postal Service Clerks	43-5051	29
Postal Service Mail Carriers	43-5052	29
Postal Service Mail Sorters, Processors	43-5053	29
Postal Service Workers	43-5050	29
Postmasters and Mail Superintendents	11-9131	9
Postsecondary Teachers	25-1000	16
Postsecondary Teachers, All Other	25-1199	16
Power Plant Operator, Distributor & Dispatcher	51-8010	36
Power Plant Operators	51-8013	36
Precision Instrument and Equipment Repairers	49-9060	34
Prepress Technicians and Workers	51-5022	36
Preschool and Kindergarten Teachers	25-2010	16
Preschool Teachers, Except Special Education	25-2011	16
Pressers, Textile, Garment & Related Materials	51-6021	36
Primary, Sec. & Special Ed. School Teachers	25-2000	16
Printers	51-5020	36
Printing Machine Operators	51-5023	36
Printing Workers	51-5000	36
Private Detectives and Investigators	33-9021	23
Procurement Clerks	43-3061	28
Producers and Directors	27-2012	18
Production Workers, All Other	51-9199	37

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Production, Planning, and Expediting Clerks	43-5061	29
Proofreaders and Copy Markers	43-9081	29
Property, Real Est., Community Assn Manager	11-9141	9
Protective Service Workers, All Other	33-9099	23
Psychiatrists	29-1066	20
Psychology Teachers, Postsecondary	25-1066	16
Public Relations Managers	11-2031	9
Public Relations Specialists	27-3031	18
Purchasing Agent, Ex. Wholesale, Retail & Farm	13-1023	10
Purchasing Agents and Buyers, Farm Products	13-1021	10
Purchasing Managers	11-3061	9

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Radiation Therapists	29-1124	20
Radio & Telecommunications Equip. Installers	49-2020	33
Radiologic Technologists and Technicians	29-2034	20
Rail Transportation Workers	53-4000	38
Rail Transportation Workers, All Other	53-4099	38
Real Estate Brokers	41-9021	27
Real Estate Brokers and Sales Agents	41-9020	27
Real Estate Sales Agents	41-9022	27
Receptionists and Information Clerks	43-4171	28
Recreation and Fitness Workers	39-9030	26
Recreation Workers	39-9032	26
Recreational Therapists	29-1125	20
Recreational Vehicle Service Technicians	49-3092	33
Refuse and Recyclable Material Collectors	53-7081	39
Registered Nurses	29-1111	20
Rehabilitation Counselors	21-1015	14
Reinforcing Iron and Rebar Workers	47-2171	31
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Reserv. & Transp. Ticket Agents & Travel Cler	43-4181	28
Residential Advisors	39-9041	26
Respiratory Therapists	29-1126	20
Respiratory Therapy Technicians	29-2054	21
Retail Sales Workers	41-2000	27
Retail Salespersons	41-2031	27
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Sales and Related Workers, All Other	41-9099	27
Sales Engineers	41-9031	27
Sales Managers	11-2022	9
Sales Representatives, Services	41-3000	27
Sales Representatives, Services, All Other	41-3099	27
Sales Reps, Wholesale & Manuf., Except Tech.	41-4012	27
Sales Reps, Wholesale & Manufacturing, Tech.	41-4011	27
Sales Reps, Wholesale and Manufacturing	41-4000	27
Sales Reps, Wholesale and Manufacturing	41-4010	27
Sawing Machine Setters, Operators & Tenders	51-7041	36
Sec. School Teacher, Ex. Special & Voc. Ed.	25-2031	17
Secondary School Teachers	25-2030	17
Secretaries and Administrative Assistants	43-6000	29
Secretaries and Administrative Assistants	43-6010	29
Secretaries, Admin. Assist., Other Office Support	43-9999	29
Secretaries, Except Legal, Medical & Executive	43-6014	29
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Security Guards	33-9030	23
Security Guards	33-9032	23
Self-Enrichment Education Teachers	25-3021	17
Separating, Filtering, Clarifying, Precipitating	51-9012	37
Service Station Attendants	53-6031	38
Set and Exhibit Designers	27-1027	18
Sewing Machine Operators	51-6031	36
Sheet Metal Workers	47-2211	31
Shipping, Receiving, and Traffic Clerks	43-5071	29
Shoe and Leather Workers and Repairers	51-6041	36
Small Engine Mechanics	49-3050	33
Social and Community Service Managers	11-9151	9
Social and Human Service Assistants	21-1093	14
Social Sciences Teachers, Postsecondary	25-1060	16
Social Scientists & Related Workers, All Other	19-3099	13
Social Scientists and Related Workers	19-3000	13
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Sociology Teachers, Postsecondary	25-1067	16
Sound Engineering Technicians	27-4014	19
Special Ed. Teachers, Preschool to Elem	25-2041	17
Special Education Teachers	25-2040	17
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Special Education Teachers, Sec. School	25-2043	17
Speech-Language Pathologists	29-1127	20
Stationary Engineers and Boiler Operators	51-8021	36
Statistical Assistants	43-9111	29
Statisticians	15-2041	11
Stock Clerks and Order Fillers	43-5081	29
Stonemasons	47-2022	31
Structural Iron and Steel Workers	47-2221	31
Structural Metal Fabricators and Fitters	51-2041	35
Subway and Streetcar Operators	53-4041	38
Supervisors of Construction Trades	47-1011	31
Supervisors of Correctional Officers	33-1011	23
Supervisors of Farming, Fishing, and Forestry	45-1010	30
Supervisors of Farming, Fishing, and Forestry	45-1011	30
Supervisors of Fire Fighting and Prevention	33-1021	23
Supervisors of Food Preparation and Serving	35-1012	24
Supervisors of Helpers, Laborers	53-1021	38
Supervisors of Housekeeping and Janitors	37-1011	25
Supervisors of Install., Maint. & Repair Workers	49-1000	33
Supervisors of Landscaping, Lawn Service	37-1012	25
Supervisors of Mechanics, Installers & Repair	49-1011	33
Supervisors of Non-Retail Sales Workers	41-1012	27
Supervisors of Office and Administrative	43-1011	28
Supervisors of Personal Service Workers	39-1021	26
Supervisors of Police and Detectives	33-1012	23
Supervisors of Production and Operating Work	51-1011	35
Supervisors of Retail Sales Workers	41-1011	27
Supervisors of Transportation & Material Moving	53-1031	38
Supervisors, Building and Grounds Cleaning	37-1010	25
Supervisors, Building, Grounds Clean. & Maint.	37-1000	25
Supervisors, Const. & Extraction Workers	47-1000	31
Supervisors, Farming, Fishing & Forestry Work	45-1000	30
Supervisors, Food Prep. & Serving Workers	35-1000	24
Supervisors, Food Preparation and Serving	35-1010	24
Supervisors, Law Enforcement Workers	33-1010	23
Supervisors, Office & Admin. Support Workers	43-1000	28
Supervisors, Personal Care & Service Workers	39-1000	26
Supervisors, Production Workers	51-1000	35
Supervisors, Protective Service Workers	33-1000	23
Supervisors, Protective Service Workers	33-1099	23
Supervisors, Sales Workers	41-1000	27

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Supervisors, Transp. & Material Moving Worker	53-1000	38
Surgeons	29-1067	20
Surgical Technologists	29-2055	21
Surveying and Mapping Technicians	17-3031	12
Surveyors	17-1022	12
Surveyors, Cartographers & Photogrammetrists	17-1020	12
Switchboard Operators, Inc. Answering Service	43-2011	28

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Tailors, Dressmakers, and Custom Sewers	51-6052	36
Tailors, Dressmakers, and Sewers	51-6050	36
Tax Examiner, Collector, Preparer & Revenue	13-2080	10
Tax Examiners, Collectors & Revenue Agents	13-2081	10
Taxi Drivers and Chauffeurs	53-3041	38
Teacher Assistants	25-9041	17
Teachers, Primary, Secondary, Adult, All Other	25-3999	17
Team Assemblers	51-2092	35
Technical Writers	27-3042	18
Telecommunications Equip. Install & Repair	49-2022	33
Telecommunications Line Installer & Repairer	49-9052	34
Telemarketers	41-9041	27
Television, Video & Motion Picture Camera Ops	27-4030	19
Tellers	43-3071	28
Textile Knitting & Weaving Machine Setters	51-6063	36
Textile Machine Setters, Operators, and Tenders	51-6060	36
Textile, Apparel, and Furnishings Workers	51-6000	36
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Title Examiners, Abstractors, and Searchers	23-2093	15
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Tool Grinders, Filers, and Sharpeners	51-4194	36
Top Executives	11-1000	9
Tour and Travel Guides	39-6020	26
Tour Guides and Escorts	39-6021	26
Training and Development Specialists	13-1073	10
Transportation Inspectors	53-6051	38
Transportation, Storage, Distribution Managers	11-3071	9
Transportation, Tourism & Lodging Attendants	39-6000	26

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Truck Drivers, Light or Delivery Services	53-3033	38

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Upholsterers	51-6093	36
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Vehicle & Mobile Equipment Mechanics	49-3000	33
Veterinarians	29-1130	20
Veterinarians	29-1131	20
Veterinary Assist. & Lab. Animal Caretaker	31-9096	22
Veterinary Technologists and Technicians	29-2056	21
Vocational Ed. Teachers, Secondary School	25-2032	17
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Waiters and Waitresses	35-3031	24
Water Transportation Workers	53-5000	38
Water, Liquid Waste Treat. Plant & System Ops	51-8031	36
Weigher, Measurer, Checker, Sampler, Records	43-5111	29
Welders, Cutters, Solderers, and Brazers	51-4121	36
Welding, Soldering & Brazing Machine Setters	51-4122	36
Welding, Soldering, and Brazing Workers	51-4120	36
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Woodworking Machine Setter, Operator, Tender	51-7040	36
Woodworking Machine Setters, Operators	51-7042	36
Word Processors and Typists	43-9022	29
Writers and Authors	27-3043	18
Writers and Editors	27-3040	18

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Zoologists and Wildlife Biologists	19-1023	13
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